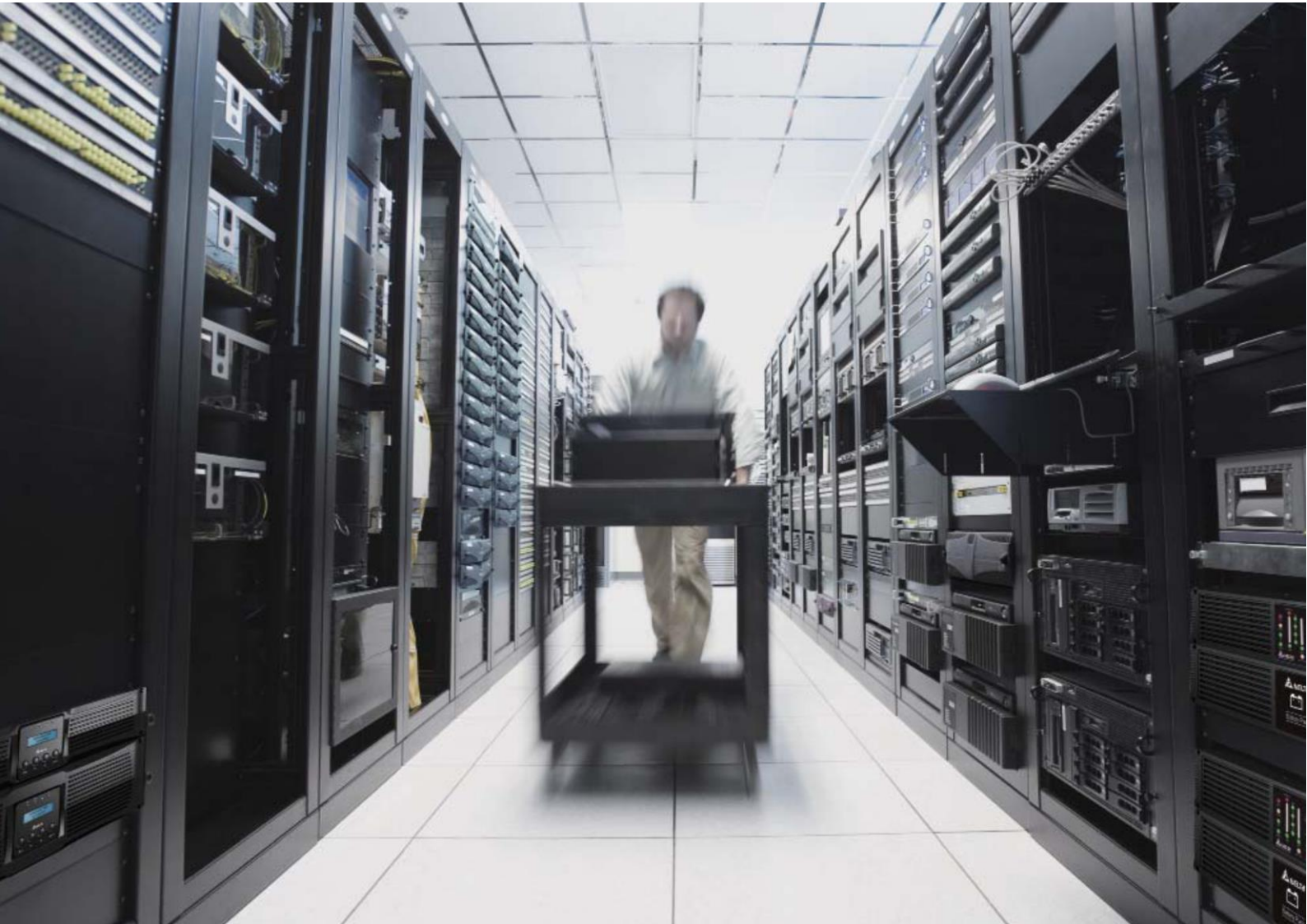




The power behind competitiveness

Delta MCIS Solutions

Accessory selection file

www.deltapowersolutions.com

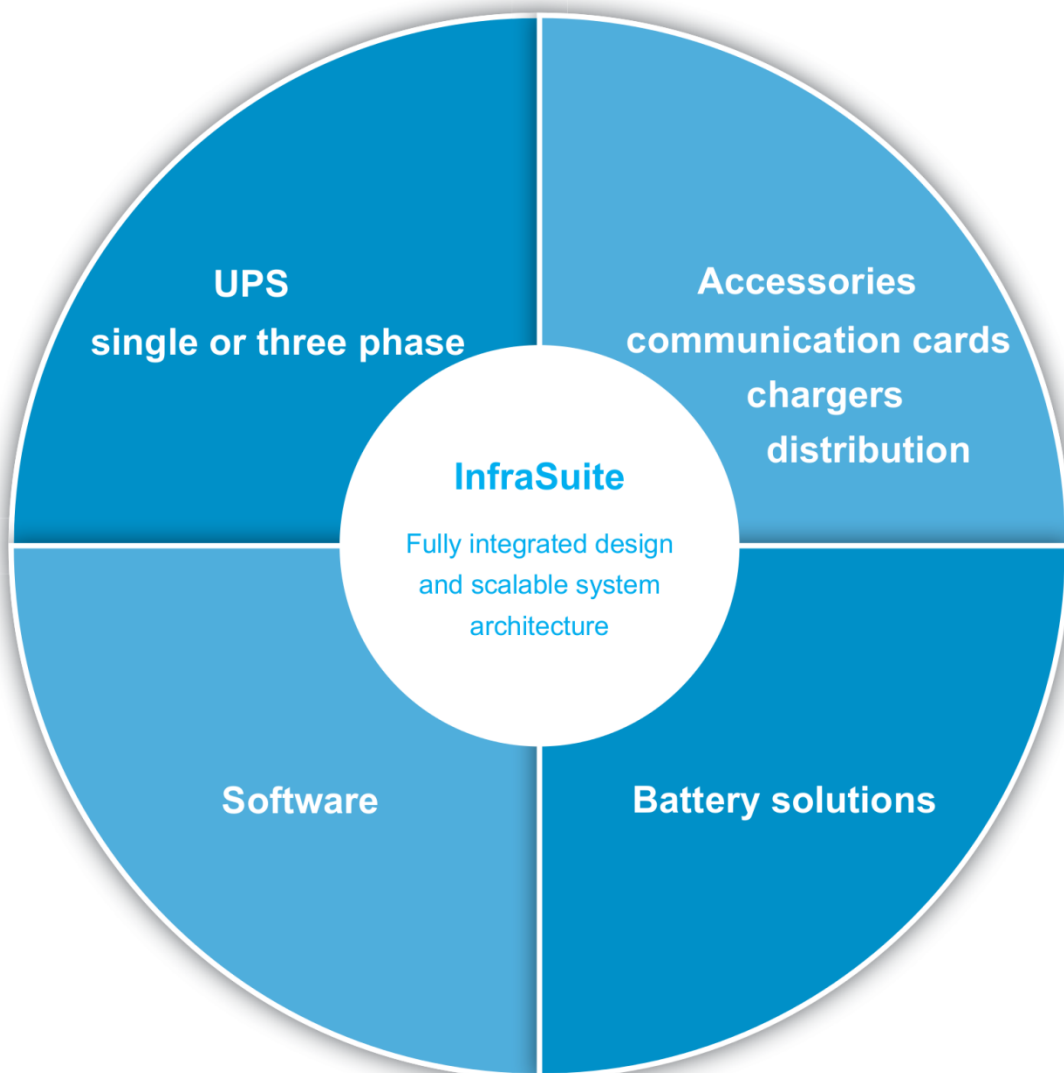


Delta MCIS solutions

Enterprise growth and IT equipment have become closely linked with clean energy and at the same time with need of providing of backup for cases when utility energy is not available It is one of the critical issues for IT managers today.

With 40 years of leadership in the core technologies of power electronics, the expert teams at Delta Electronics is developing efficeint and high quality solutions for end users.

This document is providing practical tool to combine UPS and accessory to make complete solutio.



2007~2008
Forbes Asia's
Fabulous 50



2009 Frost & Sullivan
Green Excellence
Award for Corporate
Leadership



Delta's Manufacturing System is
Certified by ISO 9001 and
ISO 14001 Standards



IECQ Certificate of
Hazardous Substance
Process Management

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How to use this document

Dear user. On first pages of this document you can find tables showing matrix of combination ups and accessory. In crossing cells are signs “o” which are linked to accessory. If you click on this link, it will move you directly to description of that particular accessory. In right top corner you can find links back to matrix or to ups section.



UPS accessory selection table for single phase 1~3kVA UPS

		N series			N series without battery			R series			Gaia series			M series			
		N-series 1kVA	N-series 2kVA	N-series 3kVA	N-series 1kVA without battery	N-series 2kVA without battery	N-series 3kVA without battery	R-series 1kVA without battery	R-series 2kVA without battery	R-series 3kVA without battery	Gaia-series 1kVA	Gaia-series 2kVA	Gaia-series 3kVA	M-series 1kVA	M-series 1.5kVA	M-series 2kVA	M-series 3kVA
		GES102N200035	GES202N200035	GES302N200035	GES102N202135	GES202N202135	GES302N202135	GES102R202035	GES202R202035	GES302R202035	GES102R200035	GES202R200035	GES302R200035	GES102M20603	GES152M206035	GES202M206035	GES302M206035
F RAIL KITS ASSY DELTA STD	3915100011							o	o	o	o	o	o	o	o	o	o
F TOWER STAND KIT RACK MOUNT MODELS	3915100088-S							o	o	o	o	o	o	o	o	o	o
F TOWER STAND+ EXPANDER ASSY DELTA STD	3915100640-S							o	o	o	o	o	o	o	o	o	o
F SNMP CARD FOR DELTA	3915100120-S		o	o		o	o	o	o	o	o	o	o	o	o	o	o
SNMP CARD ALL-IN-ONE PDC/STS/COOLING/UPS	3915100975-S35										o	o	o	o	o	o	o
F EXTERNAL BOX FOR IPV6 SNMP CARD	3915100925-S35	o	o	o	o	o	o										
F RELAY I/O CARD F FOR UPS	3915100147-S		o	o		o	o	o	o	o	o	o	o	o	o	o	o
F MODBUS CARD FOR DELTA (TW)	3915100422-S		o	o		o	o	o	o	o	o	o	o	o	o	o	o
F SNMP CARD (MINI) FOR DCE	3915100473-S	o			o												
F DRY CONTACT CARD (MINI) FOR DCE	3915100474-S	o			o												
F USB CARD (MINI) FOR DCE	3915100476-S	o			o												
F MODBUS CARD (MINI) FOR DCE	3915100748-S	o			o												
F TVSS CARD (MINI) FOR DCE	3915100482-S	o	o	o	o	o	o	o	o	o							
AIR FILTER FOR GAIA Plus SERIES 1K~6K (2U)	3915100835-S00										o	o	o				
F ENVIRONMENT PROBE (TEMP+HUM.+4 CONTACT)	EMS1000000		o	o		o	o	o	o	o	o	o	o	o	o	o	o
PWB ASSY 24V CHARGER BD F	5505001897-S-00										o						
PWB ASSY 36V CHARGER BD F	5505001895-S-00	o			o			o									
PWB ASSY 48V CHARGER BD F	5505001894-S-00											o					
PWB ASSY 72V CHARGER BD F	5505001892-S-00		o	o		o	o		o	o			o				
F CHARGE FOR 2/3/4/6PCS BATTERY NO	CHG751C262000-N	o	o	o	o	o	o	o	o	o	o	o	o				
F BATTERY CABLE ONE SIDE FREE	3080121702-S94	o	o	o	o	o	o	o	o	o							
Battery Unit for N-1kVA	GES032A107035	o			o												
Battery Unit for N-2/3kVA	GES061A109035		o	o		o	o										
Battery Unit for GES102R200035	GES022B109000										o						
Battery Unit for GES202R200035	GES042B109000											o					
Battery Unit for GES302R200035	GES062B109000												o				
UPS SUPPORT KIT 6-1-9 FOR M3K	GES061B109235												o				o



UPS accessory selection table for single phase 5~10kVA UPS

		RT series		
		RT-series 5kVA	RT-series 6kVA	RT-series 10kVA
		GES502R212035	GES602R212035	GES103R212035
F RAIL KITS ASSY DELTA STD	3915100011	o	o	o
F TOWER STAND KIT RACK MOUNT MODELS	3915100088-S	o	o	o
F TOWER STAND+ EXPANDER ASSY DELTA STD	3915100640-S	o	o	o
F SNMP CARD FOR DELTA	3915100120-S	o	o	o
SNMP CARD ALL-IN-ONE PDC/STS/COOLING/UPS	3915100975-S35	o	o	o
F EXTERNAL BOX FOR IPV6 SNMP CARD	3915100925-S35	o	o	o
F RELAY I/O CARD F FOR UPS	3915100147-S	o	o	o
F MODBUS CARD FOR DELTA (TW)	3915100422-S	o	o	o
F SNMP CARD (MINI) FOR DCE	3915100473-S	o	o	o
F DRY CONTACT CARD (MINI) FOR DCE	3915100474-S	o	o	o
F USB CARD (MINI) FOR DCE	3915100476-S	o	o	o
F MODBUS CARD (MINI) FOR DCE	3915100748-S	o	o	o
F TVSS CARD (MINI) FOR DCE	3915100482-S	o	o	o
AIR FILTER FOR GAIA Plus SERIES 1K~6K (2U, 100pcs)	3915100835-S00	o	o	
AIR FILTER FOR GAIA Plus SERIES 8K~10K (3U, 100pcs)	3915100840-S00			o
F ENVIRONMENT PROBE (TEMP+HUM.+4 CONTACT)	EMS1000000	o	o	o
PWB ASSY CHARGER BD F GES602R212035/09	5505001891-S-00	o	o	
PWB ASSY CHARGER BD F GES103R212009	5505001889-S-00			o
PWB ASSY 192V CHARGER BD F	5505001902-S-00	o	o	
PWB ASSY 240V CHARGER BD F	5505001903-S-00			o
F CHARGE FOR 16/20PCS BATTERY NO CHARGER	CHG252C2D1000-N	o	o	o
F BATTERY CABLE ONE SIDE FREE	3080121702-S94	o	o	o
F MANUAL BYPASS BOX FOR GAIA 5~11KVA	3915100706-S35	o	o	o
F MANUAL BYPASS BOX FOR PARALLEL	3915100707-S35	o	o	o
5/6KVA EBM 12V/5Ah x 16pcs RT6KB	GES161B105700	o	o	
5/6KVA Empty EBM (no battery) RT6KB	GES161B105700-N	o	o	
10KVA EBM 12V/9Ah x 20pcs RT10KB	GES201B109700			o
10KVA Empty EBM (no battery) RT10KB	GES201B109700-N			o



UPS accessory selection table for 3phase monoblock UPS

		EH series			HPH series			DPS series							
		EH-series 10kVA	EH-series 15kVA	EH-series 20kVA	HPH-series 20kVA HPH-integrated with batt. HPH-integrated w/o batt.	HPH-series 30kVA HPH-integrated with batt. HPH-integrated w/o batt.	HPH-series 40kVA HPH-integrated with batt. HPH-integrated w/o batt.	DPS-series 60kVA	DPS-series 80kVA	DPS-series 100kVA	DPS-series 120kVA	DPS-series 160kVA	DPS-series 200kVA	DPS-series 300kVA	DPS-series 400kVA
		GES103EH320035	GES153EH320035	GES203EH320035	GES203HH330035 GES203HH33A035 GES203HH33B035	GES303HH330035 GES303HH33A035 GES303HH33B035	GES403HH330035 GES403HH33A035 GES403HH33B035	GES603DS3312035	GES803DS3312035	GES104DS3312035	GES124DS3312035	GES164DS3312A35	GES204DS3312A35	GES304DS3312A35	GES404DS3312A35
F SNMP CARD FOR DELTA	3915100120-S	o	o	o	o	o	o	o	o	o	o	o	o	o	o
SNMP CARD ALL-IN-ONE PDC/STS/COOLING/UPS	3915100975-S35	o	o	o	o	o	o	o	o	o	o	o	o	o	o
F EXTERNAL BOX FOR IPV6 SNMP CARD	3915100925-S35	o	o	o	o	o	o	o	o	o	o	o	o	o	o
F RELAY I/O CARD F FOR UPS	3915100147-S	o	o	o	o	o	o	o	o	o	o	o	o	o	o
F MODBUS CARD FOR DELTA (TW)	3915100422-S	o	o	o	o	o	o	o	o	o	o	o	o	o	o
F SNMP CARD (MINI) FOR DCE	3915100473-S	o	o	o	o	o	o								
F DRY CONTACT CARD (MINI) FOR DCE	3915100474-S	o	o	o	o	o	o								
F USB CARD (MINI) FOR DCE	3915100476-S	o	o	o	o	o	o								
F MODBUS CARD (MINI) FOR DCE	3915100748-S	o	o	o	o	o	o								
F TVSS CARD (MINI) FOR DCE	3915100482-S	o	o	o	o	o	o								
F ENVIRONMENT PROBE (TEMP+HUM.+4 CON)	EMS1000000	o	o	o	o	o	o	o	o	o	o	o	o	o	o
PWB ASSY 240V CHARGER BD F	5505001903-S-00	o	o	o	o	o	o	o	o	o	o	o	o	o	o
F CHARGE FOR 16/20PCS BATTERY NO CHARGER	CHG252C2D1000-N	o	o	o	o	o	o	o	o	o	o	o	o	o	o
BATTERY TEMP RC-200G/HA A	3790304700							o	o	o	o	o	o	o	o
BATT CAB UPS EH 10-20kVA 3*20*9AH EMPTY	3799333400	o	o	o											
BATT CAB UPS HPH 20-40kVA 5*40*9AH EMPTY	3799356100				o	o	o								
ASM BATT CAB TFH NH2+PK2+SWITCH	3791722600	o	o	o	o	o	o	o	o						
ASM BATT CAB TJH NH2+PK2+SWITCH	3791722700					o	o	o	o	o	o	o	o	o	o
ASM BATT CAB TJH NH3+PK3+SWITCH	3791722800												o	o	o
ASM BATT CAB 2xTFH NH2+PK2+SW	3791722900							o	o	o	o	o	o	o	o
VFF UPS PK0 + VFF UPS w/o PK0	3799271100 + 3799271500							o	o	o	o	o	o	o	o
POWER ASSY 20K/3U NH+ PM_NEW	3915101156-S							o	o	o	o				
F PDU I=380/400V 3,Y 16A F-R(DELTA LOGO)	PDU2421A3910001				o	o	o	o	o	o	o	o	o	o	o
F PDU I=380/400V 3,Y 32A H-RACK (UFO,CE)	PDU1425A1210000				o	o	o	o	o	o	o	o	o	o	o
F PDU I=380/400V 3,Y 32A 1U (UFO,CE)	PDU7425A0600000				o	o	o	o	o	o	o	o	o	o	o



UPS accessory selection table for 3phase modular UPS

		NH+		DPH		
		NH+-series 80kVA	NH+-series 120kVA	DPH-series 75kVA	DPH-series 150kVA	DPH-series 200kVA
		GES803HP3312035	GES124HP3312035	UPS753DH3312035	UPS154DH3312035	UPS204DH3312035
POWER ASSY 20K/3U HP-PM	3915100486-S	o	o			
POWER ASSY 20K/3U NH+ PM_NEW	3915101156-S	o	o			
POWER ASSY 25KW/3U DPH-PM	3915100909-S			o	o	o
F SNMP CARD FOR DELTA	3915100120-S	o	o	o	o	o
SNMP CARD ALL-IN-ONE PDC/STS/COOLING/UPS	3915100975-S35	o	o	o	o	o
F EXTERNAL BOX FOR IPV6 SNMP CARD	3915100925-S35	o	o	o	o	o
F RELAY I/O CARD F FOR UPS	3915100147-S	o	o	o	o	o
F MODBUS CARD FOR DELTA (TW)	3915100422-S	o	o	o	o	o
F ENVIRONMENT PROBE (TEMP+HUM.+4 CONTACT)	EMS1000000	o	o	o	o	o
PWB ASSY 240V CHARGER BD F	5505001903-S-00	o	o	o	o	o
F CHARGE FOR 16/20PCS BATTERY NO CHARGER	CHG252C2D1000-N	o	o	o	o	o
BATTERY TEMP RC-200G/HA A	3790304700	o	o	o	o	o
TEMPERATURE SENSOR CABLE L10000 FOR DPH	3915101381-S	o	o	o	o	o
DUST FILTER ASSY HP-SERIES(120K)	3915100965-S35	o	o			
DPH DUST FILTER	3915101279-S35			o	o	o
F PWB ASSY HP-PM-TC	5505001595-S	o	o			
UPS SUPPORT KIT 40-1-026 NH-SERIES	GES401H02600035	o	o			
UPS SUPPORT KIT 40-1-040 NH-SERIES	GES401H04000035	o	o			
ASM BATT CAB TFH NH2+PK2+SWITCH	3791722600	o	o			
ASM BATT CAB TJH NH2+PK2+SWITCH	3791722700	o	o	o	o	o
ASM BATT CAB TJH NH3+PK3+SWITCH	3791722800					o
ASM BATT CAB 2xTFH NH2+PK2+SW	3791722900	o	o	o	o	o
VFF UPS PK0 + VFF UPS w/o PK0	3799271100 + 3799271500	o	o	o	o	o
F PDU I=380/400V 3,Y 16A F-R(DELTA LOGO)	PDU2421A3910001	o	o	o	o	o
F PDU I=380/400V 3,Y 32A H-RACK (UFO,CE)	PDU1425A1210000	o	o	o	o	o
F PDU I=380/400V 3,Y 32A 1U (UFO,CE)	PDU7425A0600000	o	o	o	o	o
DPH 75kVA BATTERY MODULE	3912000285-S			o		
RPDC FRAME FOR DPH	PDC130CA0800135			o		



Rail kit

*Back to: [1~3kVA](#) / [5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3915100011

SAP NAME: F RAIL KITS ASSY DELTA STD

Description: Rail kit accessory is providing the possibility to mount Delta rack-mountable UPS inside the 19' rack cabinet.

Rail kit depth: 485mm to 815mm



Applicable to UPS:

- R-series (included in UPS package).
- M-series (included in UPS package).
- Gaia series (optional, not in UPS package).
- RT-series (optional, not in UPS package).



Tower stand kit

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3915100088-S

SAP NAME: F TOWER STAND KIT RACK MOUNT MODELS

Description: Tower stand kit allows installing rack-mountable UPS and related battery cabinets in tower position up to 4U size.



Applicable to UPS:

- R-series (optional, not in UPS package).
- M-series (optional, not in UPS package).
- Gaia series (included in UPS package).
- RT-series.



Tower stand kit with expander 2U to 9U

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3915100640-S

SAP NAME: F TOWER STAND+EXPANDER ASSY DELTA STD

Description: Tower stand kit allows installing rack-mountable UPS and related battery cabinets in tower position up to 9U size.



Applicable to UPS:

- R-series.
- M-series.
- Gaia series.
- RT-series (included in UPS package).



SNMP card – Legacy IPv4

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100120-S

SAP NAME: F SNMP CARD FOR DELTA

Description: SNMP card is additional communication interface between UPS and the network. Allows UPS remote control and monitoring through network. Card can be installed into all type of UPS with Smart slot.



Technical specifications:

Network Connection	10 / 100M RJ45 connector
Operation temperature	0 ~ 40°C
Operation humidity	10 ~ 80 %
Input power	9 ~ 24 VDC
Power consumption	< 1W
Dimensions	130 x 60 mm
Weight	58 g

- Features:** Supported network protocols:
- SNMPv1 protocol, accepts NMS monitoring as well as actively sends Trap packets to target hosts.
 - HTTP - monitor and set up through network browser with built-in web server.
 - Telnet, TFTP, FTP, BOOTP, SMTP, SNTP and WOL.
 - MIB - supports RFC1628 and custom defined UPSv4 MIB.

Management:

- Regular power on and off with possibility to set UPS on and off time.
- Regular testing - battery discharge test to ensure the battery is in good condition.
- Smart power off will send power off signal to connected host actively if the host computer has the InsightPower Client or SNMP power off proxy installed.
- Optional environment sensor can integrate ambient temperature and humidity for total cabinet monitoring.

Diagnosis:

- Event log - keep date, time, and event sequence in event log file.
- History records - Keep date, time, and UPS parameter data. Can be exported into XLS file for further processing.

Reactions to events:

- UPS shutdown - Define delay time for UPS power off to avoid deep discharge.
- Email - send email notification to predefined recipients in case of power event.

Applicable to UPS:

- N-series, except N 1kVA, R-series, M-series, Gaia series, RT-series.
- EH-series, HPH-series, NH+ series, DPH-series, DPS-series.



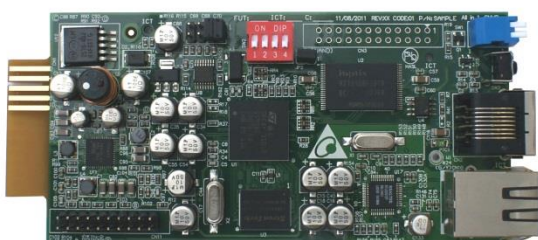
SNMP card – IPv6 all in one (AIO)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100975-S35

SAP NAME: SNMP CARD ALL-IN-ONE PDC/STS/COOLING/UPS

Description: SNMP card is additional communication interface between UPS and the network. Card allows UPS remote control and monitoring through network and can be installed into all type of UPS with Smart slot, except N-series and R-series.



Technical specifications:

Network Connection	10 / 100M RJ45 connector
Operation temperature	0 ~ 60°C
Operation humidity	10 ~ 90 % (Non condensing)
Input power	12 VDC
Power consumption	< 2W
Dimensions	130 x 60 mm
Weight	75 g

Features: Supported network protocols:

- SNMPv1 and SNMPv3 protocol, accepts NMS monitoring as well as actively sends Trap packets to target hosts.
- HTTP/HTTPS - monitor and set up through network browser with built-in web server.
- Telnet, SSH, FTP, SFTP, BOOTP, DHCP, SMTP, SNTP and RADIUS, Syslog.
- MIB - supports RFC1628 and custom defined UPSv4 and UPSv5 MIB.

Management:

- Regular power on and off with possibility to set UPS on and off time.
- Regular testing - battery discharge test to ensure the battery is in good condition.
- Smart power off will send power off signal to connected host actively if the host computer has the InsightPower Client or SNMP power off proxy installed.
- Optional environment sensor can integrate ambient temperature and humidity for total cabinet monitoring.

Diagnosis:

- Event log - keep date, time, and event sequence in event log file.
- History records - Keep date, time, and UPS parameter data. Can be exported into XLS file for further processing.

Reactions to events:

- UPS shutdown - Define delay time for UPS power off to avoid deep discharge.
- Email - send email notification to predefined recipients in case of power event.

Applicable to UPS:

- N-series, except N 1kVA, R-series (External Box for SNMP required).
- M-series, Gaia series, RT-series.
- EH-series, HPH-series, NH+ series, DPH-series, DPS-series.



External Box for SNMP Card IPv6

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100925-S35

SAP NAME: F EXTERNAL BOX FOR IPV6 SNMP CARD

Description: External box is possible to use in UPS, that doesn't have Smart slot or its auxiliary power supply is less than 2W and network interface is necessary.



Technical specifications:

Power Jack	Input power 12 VDC
RS232 port	D-Sub 9-Pin Male
10-Pin connector	Male
Dimensions (WxDxH)	92,4 x 208 x 42 mm
Weight	540 g

Applicable to UPS:

- N-series, except N 1kVA, R-series (required for SNMP IPv6v card).
- M-series, Gaia series, RT-series.
- EH-series, HPH-series, NH+ series, DPH-series, DPS-series.



Relay I/O card

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100147-S

SAP NAME: F RELAY I/O CARD F FOR UPS

Description: Relay I/O card expands communication ability of the UPS and can be installed in Smart slot. Card allows monitoring of UPS with 6 output programmable dry contacts. 1 input dry contact can be set as UPS shutdown or



Technical specifications:

Operation temperature	0 ~ 40°C
Operation humidity	10 ~ 80 %
Input voltage	8-20 VDC
Power consumption	1,2W
Dimensions	130 x 60 mm
Weight	200 g
Output contact rating	24VD C/ 1A
Input contact rating	24VD C/ 10mA

Features:

- UPS status information presented as 6 contact closures.
- Programmable output contacts, monitors the UPS events that users really concern in different application practices.
- Output relays can be configured to either NC (Normal Close) or NO (Normal Open).
- Configurable UPS shutdown delay time.
- Configurable input signal as shutdown UPS or battery test.

Applicable to UPS:

- N-series, except N 1kVA, R-series, M-series, Gaia series, RT-series.
- EH-series, HPH-series, NH+ series, DPH-series, DPS-series.



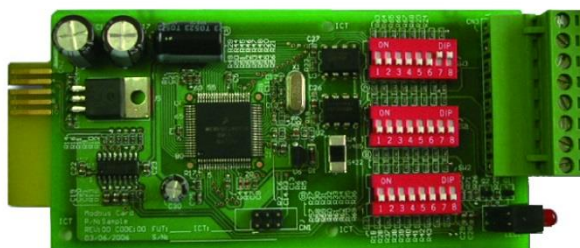
Modbus card

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100422-S

SAP NAME: F MODBUS CARD FOR DELTA (TW)

Description: Convert status and parameter data of UPS to comply with the standard Modbus protocol. Modbus card can be installed in UPS Smart slot.



Technical specifications:

Operation temperature	0 ~ 40°C
Operation humidity	10 ~ 80 %
Input voltage	8-20 VDC
Power consumption	1,2W
Dimensions	130 x 60 mm
Weight	150 g

Features:

- Communications interface: 1 x RS232 port; 1 x RS485 or RS422.
- Device ID can be set to any number between 0~255.
- Terminating resistance of RS485 / 422 can be set by dip switch.
- Supports Modbus RTU format.
- Baud rate: 2400, 4800, 9600 or 19200.
- Data bit: 7 or 8.
- Parity check: Null, even or odd.

Applicable to UPS:

- N-series, except N 1kVA, R-series, M-series, Gaia series, RT-series.
- EH-series, HPH-series, NH+ series, DPH-series, DPS-series.



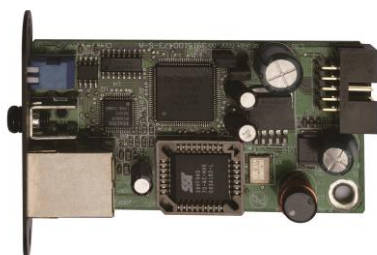
Mini SNMP card

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock / 3ph modular](#)

PN: 3915100473-S

SAP NAME: F SNMP CARD (MINI) FOR DCE

Description: SNMP card is additional communication interface between UPS and the network. Card allows UPS remote control and monitoring through network. Card can be installed into UPS with Mini card slot.



Technical specifications:

Network Connection	RJ-45 connector
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80 %
Power Input	3.3V DC
Power Consumption	1 Watt Maximum
Size	60.5 mm x 40 mm (L x W)
Weight	30 g

Features:

- SNMP agent and web server implemented for UPS.
- Supports the following protocols: ARP, IP, ICMP, SNMPv1, SNMPv3 USM, UDP, TCP, HTTP, FTP, TFTP, SMTP, BOOTP, SNTP, DN and Telnet.
- Security login by MD5.
- Users level management.
- Firmware upgrade for new features through TFTP.
- Batch configuration through FTP.
- Saves UPS event log and history values in EEPROM.
- Schedules shutdown, restart and test UPS.
- Wake On LAN packet to wakeup PC.
- Sends e-mail and SNMP trap to notify users.
- Provides InsightPower Client software to protect public operating systems.
- Provides InsightPower Manager to monitor all of the UPS information in the network.
- Provides InsightPower EzSetting software to easily configure the first time and upgrade firmware.

Applicable to UPS:

- N-series 1kVA.
- RT-series.
- EH-series.
- HPH-series.



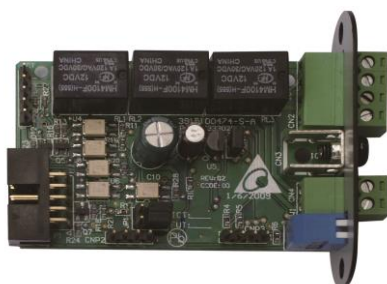
Mini relay I/O card

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100474-S

SAP NAME: F DRY CONTACT CARD (MINI) FOR DCE

Description: Mini Relay I/O card expands communication ability of the UPS and can be installed in Mini card slot. Card allows monitoring of UPS by 3 output programmable dry contacts.



Technical specifications:

Size	68 X 43 mm
Weight	35g
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80 %
Power Input	8 ~ 20V DC
Power Consumption	0.8 Watts

Features:

- SNMP agent and web server implemented for UPS.
- UPS status information presented as 3 contact closures.
- Configurable input signal as shutdown UPS or battery test.
- Programmable output contacts, monitors UPS events that users are most concerned about for various applications.
- Configurable UPS shutdown delay time.
- Protects up to 3 computers.
- Unattended graceful shutdown.

Applicable to UPS:

- N-series 1kVA.
- RT-series.
- EH-series.
- HPH-series.



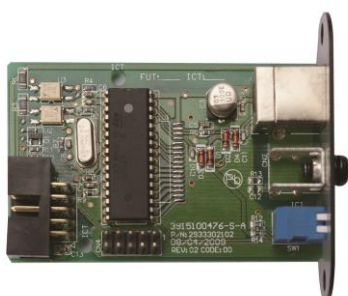
Mini USB card

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100476-S

SAP NAME: F USB CARD (MINI) FOR DCE

Description: Mini USB card expands communication ability of the UPS and can be installed in Mini card slot. Card allows UPS to communicate with Windows 2000/XP/Vista/2003/7 without monitoring software. Support Human Interface Device (HID) protocol.



Technical specifications:

Size	68 x 43 mm
Weight	30 g
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80 %
Power Input	12V DC
Power Consumption	0.5 Watts

Features:

- Communication Protocol: SCI: Delta Regular v1.51, USB: Delta HID Protocol v3.4
- Support HID (Human Interface Device) protocol
- The UPS can communicate with Windows 2000/XP/Vista/2003 without monitoring software
- Compatible with Delta UPS standard software: UPSentry 2012

Applicable to UPS:

- N-series 1kVA.
- RT-series.
- EH-series.
- HPH-series.



Mini Modbus card

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100478-S

SAP NAME: F MODBUS CARD (MINI) FOR DCE

Description: Convert status and parameter data of UPS to comply with the standard Modbus protocol. Card can be installed in UPS Mini card slot.



Technical specifications:

Size	68 x 43 mm
Weight	40 g
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80 %
Power Input	12V DC
Power Consumption	0.5 Watts

Features:

- Communications interface: 1 x RS232 port; 1 x RS485 or RS422.
- Device ID can be set to any number between 0~255.
- Terminating resistance of RS485 / 422 can be set by dip switch.
- Supports Modbus RTU format.
- Baud rate: 2400, 4800, 9600 or 19200.
- Data bit: 7 or 8.
- Parity check: Null, even or odd.

Applicable to UPS:

- N-series 1kVA.
- RT-series.
- EH-series.
- HPH-series.



Mini TVSS card

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100482-S

SAP NAME: F TVSS CARD (MINI) FOR DCE

Description: Mini TVSS (transient voltage surge suppression) card is dedicated to network line protection against dangerous surges and spikes. Can be install in UPS Mini card slot.



Technical specifications:

Network Connection	2x RJ-45 connector
Size	46 x 43 mm
Weight	25 g
Operating Temperature	0 ~ 40° C
Operating Humidity	10 ~ 80 %

Features:

- RJ11+RJ45 phone/Fax/Network protection from spike or surge noise.

Applicable to UPS:

- N-series.
- R-series.
- Built-in TVSS in Gaia series.
- RT-series.
- EH-series.
- HPH-series.



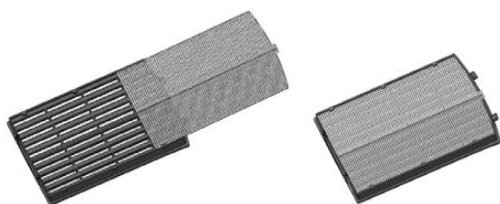
Air filter for RT series 5,6kVA

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3915100835-S00

SAP NAME: AIR FILTER FOR GAIA Plus SERIES 1K~6K (2U)

Description: Dust filter for RT 5,6kVA series UPS, 2U high. 100 pieces of air filter in package. UPS lifetime can be extended by adding air filter to prevent the sources of environmental substances.



Applicable to UPS:

- RT 5 and 6kVA.



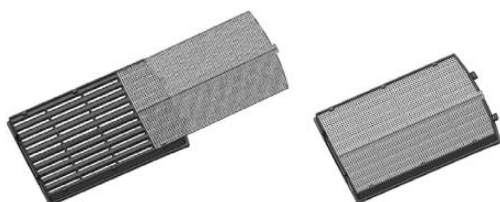
Air filter for RT series 10kVA

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3915100840-S00

SAP NAME: AIR FILTER FOR GAIA Plus SERIES 8K~10K

Description: Dust filter for RT 10kVA series UPS, 3U high. 100 pieces of air filter in package. UPS lifetime can be extended by adding air filter to prevent the sources of environmental substances.



Applicable to UPS:

- RT 10 kVA.



Environmental probe

[Back to: 1~3kVA / 5~10kVA](#)
[3ph monoblock / 3ph modular](#)

PN: EMS1000000

SAP NAME: F ENVIRONMENT PROBE (TEMP+HUM.+4 CONTACT)

Description: Real time temperature and humidity monitoring with 4 dry inputs. Support SNMP, RS232 or RS485 communication protocols. Probe must be connected to UPS SNMP card.



Technical specifications:

Model	EMS1000
Input	Connect to UPS SNMP card: 12Vdc (pin 1 & 4) with PDU SNMP card: 5Vdc (pin 2 & 4)
Dimensions (WxDxH)	66 x 99 x 30 mm
Weight	120g
Temperature	±1°C @ 15 ~ 35°C ±2°C @ 0 ~ 15°C and 35 ~ 45°C
Relative humidity	20 ~ 90%
Humidity accuracy	± 10% from 15 ~ 35°C
Height	0 ~ 3,000 m
Safety regulation compliance	CE, EN55022 Class B, EN55024

Features:

- LCD display.
- Ambient temperature and humidity monitoring.
- Four dry input signal connectors.
- Supports both RS232 and RS485 communications.
- Supports series connections for up to 10 EnviroProbes.
- Supports SNMP communications protocol.

Applicable to UPS:

- N-series, except N 1kVA.
- R-series.
- M-series.
- Gaia series.
- RT-series.
- EH-series.
- HPH-series.
- NH+ series.
- DPH-series.
- DPS-series.



Battery charger 24V (external)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001897-S-00

SAP NAME: F PWB ASSY 24V CHARGER BD

Description: Additional battery charger for 2pcs battery strings – 24V nominal voltage. Charger has to be installed in external charger box [CHG751C262000-N](#).



Applicable to UPS:

- Gaia series 1kVA – necessary to make cable connection from charger box to battery with Anderson connector.



Battery charger 36V (internal/external)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001895-S-00

SAP NAME: F PWB ASSY 36V CHARGER BD

Description: Additional battery charger for 3pcs battery strings – 36V nominal voltage. Charger has to be installed in external charger box [CHG751C262000-N](#) or inside the UPS.



Applicable to UPS:

- N-series 1kVA (internal or external).
- R-series 1kVA (internal or external).
- For charger box to N-series 1kVA battery cabinet connection a Delta battery cable [\(3080121702-S94\)](#) with one open end can be used.



Battery charger 48V (external)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001894-S-00

SAP NAME: F PWB ASSY 48V CHARGER BD

Description: Additional battery charger for 4pcs battery strings – 48V nominal voltage. Charger has to be installed in external charger box [CHG751C262000-N](#).



Applicable to UPS:

- Gaia series 2kVA – necessary to make cable connection from charger box to battery with Anderson connector.



Battery charger 72V (internal/external)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001892-S-00

SAP NAME: F PWB ASSY 72V CHARGER BD

Description: Additional battery charger for 6pcs battery strings – 72V nominal voltage. Charger has to be installed in external charger box [CHG751C262000-N](#) or inside the UPS.



Applicable to UPS:

- N-series 2/3kVA (internal or external).
- R-series 2/3kVA (internal or external).
- Gaia series 3kVA (external).
- In the case of N-series and R-series UPS, for charger box to battery cabinet connection a Delta battery cable [\(3080121702-S94\)](#) with one open end can be used.
- Gaia series 3kVA – necessary to make cable connection from charger box to battery with Anderson connector.



Charger box “S”

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: CHG751C262000-N

SAP NAME: F CHARGE FOR 2/3/4/6PCS BATTERY NO

Description: 19" empty charger box for all external charger boards for Gaia 1-3kVA, N 1-3kVA and R 1-3 kVA Application. Max 2 charger boards in one charger box.



MODEL	CHG-24V-8A-1	CHG-24V-8A-2	CHG-36V-8A-1	CHG-36V-8A-2	CHG-48V-7A-1	CHG-48V-7A-2	CHG-72V-5A-1	CHG-72V-5A-2
INPUT								
Voltage	130~300 Vac (Full load)							
Frequency	45~65 Hz							
Current	< 4 A							
Power Factor	> 0,97							
Protection	4 A fuse per charger board							
OUTPUT								
Output Power	200W ±20W	400W ±40W	300W ±30W	600W ±60W	350W ±35W	700W ±70W	375W ±37,5 W	750W ±75W
Charger Voltage	19V~27,4V		28,5V~41,1V		38V~54,8V		57V~82,2V	
Charger Current	8A	16A	8A	16A	7A	14A	5A	10A
Protection	10 A fuse per charger board							
PHYSICAL								
Dimensions (W x D x H)	384 x 440 x 88,5 mm (terminal block included) 384 x 440 x 88,5 mm (terminal block excluded)							
Weight	4 kg							

Applicable to UPS:

- N-series 1/2/3kVA (internal or external).
- R-series 1/2/3kVA (internal or external).
- Gaia series 1/2/3kVA (external).
- In the case of N-series and R-series UPS, for charger box to battery cabinet connection a Delta battery cable ([3080121702-S94](#)) with one open end can be used.
- Gaia series 3kVA – necessary to make cable connection from charger box to battery with Anderson connector.



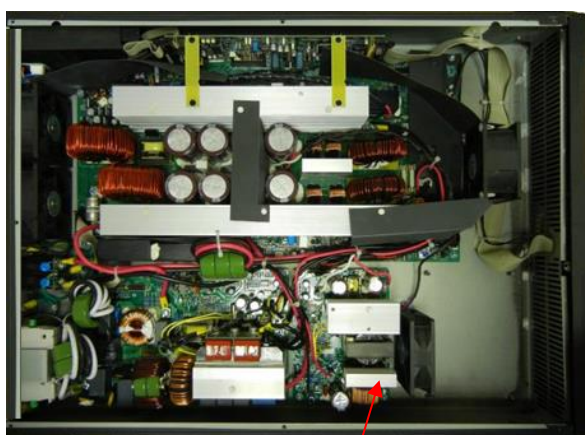
Battery charger 192V (internal)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001891-S-00

SAP NAME: PWB ASSY CHARGER BD F GES602R212035/09

Description: Additional battery charger (up to 4A) for 16pcs battery strings – 192V nominal voltage. Charger has to be installed inside the UPS.



Built-in internal charger 4A



Additional internal charger 4A

Applicable to UPS:

- RT-series 5/6kVA.



Battery charger 240V (internal)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001889-S-00

SAP NAME: PWB ASSY CHARGER BD F GES103R212009

Description: Additional battery charger (up to 4A) for 20pcs battery strings – 240V nominal voltage. Charger has to be installed inside the UPS.



Built-in internal charger 4A



Additional internal charger 4A

Applicable to UPS:

- RT-series 10kVA.



Battery charger 192V (external)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001902-S-00

SAP NAME: PWB ASSY 192V CHARGER BD F

Description: Additional battery charger for 16pcs battery strings – 192V nominal voltage. Charger has to be installed in external charger box [CHG252C2D1000-N](#).



Applicable to UPS:

- RT-series 5/6kVA.
- For connection from charger box to battery cabinet a Delta battery cable ([3080121702-S94](#)) with one open end can be used.



Battery charger 240V (external)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 5505001903-S-00

SAP NAME: PWB ASSY 240V CHARGER BD F

Description: Additional battery charger for 20pcs battery strings – 240V nominal voltage. Charger has to be installed in external charger box [CHG252C2D1000-N](#).



Applicable to UPS:

- RT-series 10kVA.
- For connection from charger box to RT battery cabinet a Delta battery cable [\(3080121702-S94\)](#) with one open end can be used.
- EH-series.
- HPH, NH+,DPS,DPH-series (2 charger boxes in serial connection or UPS charging system).



Charger box “L”

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: CHG252C2D1000-N

SAP NAME: F CHARGE FOR 16/20PCS BATTERY NO CHARGER

Description: 19" empty charger box for all external charger boards for RT application. Max 2 charger boards in one charger box.



MODEL	CHG-240V- 4,5A-1	CHG-240V- 4,5A-2	CHG-192V- 4,5A-1	CHG-192V- 4,5A-2
INPUT				
Voltage	170~290 Vac (Full load)			
Frequency	40~70 Hz			
Current	< 8 A			
Power Factor	> 0,97			
Protection	12 A fuse per charger board			
OUTPUT				
Output Power	1125W ±225W	2250W ±450W	900W ±180W	1800W ±360W
Charger Voltage	240V~272V		192V~217,6V	
Charger Current	4,5 A	9 A	4,5 A	9 A
Protection	8 A fuse per charger board			
PHYSICAL				
Dimensions (W x D x H)	384 x 440 x 88,5 mm (terminal block included) 384 x 440 x 88,5 mm (terminal block excluded)			
Weight	4 kg			

Applicable to UPS:

- RT-series 5/6kVA.
- RT-series 10kVA.
- For connection from charger box to RT battery cabinet a Delta battery cable ([\(3080121702-S94\)](#) with one open end can be used.
- EH-series.
- HPH, NH+,DPS,DPH-series (2 charger boxes in serial connection or UPS charging system).



Battery cable with Delta connector and second end free

Back to: [1~3kVA](#) / [5~10kVA](#)

[3ph monoblock](#) / [3ph modular](#)

PN: 3080121702-S94

SAP NAME: F BATTERY CABLE ONE SIDE FREE

Description: 1m battery cable with one end open for connection of customized batteries. This cable is designed for long backup UPS models. Also can be used as connection from charger box [CHG751C262000-N](#) to N-series battery cabinet or charger box [CHG252C2D1000-N](#) to RT-series battery cabinet.



Applicable to UPS:

- N-series.
- R-series.
- RT-series.



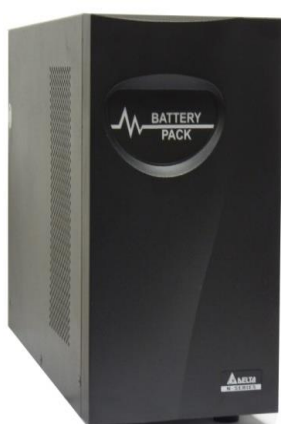
Battery cabinet for N 1kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES032A107035

SAP NAME: Battery Unit for N-1kVA

Description: External battery cabinet for N 1kVA UPS for extended backup time. Cabinet contains 2 strings of 3 pcs 12V/7Ah batteries. Battery cable with delta connectors is included.



Technical specifications:

Dimensions (WxDxH)	140 x 425 x 373 mm
Weight	15kg
Nominal battery voltage	36VDC
Battery type	BB SH7-12 (7Ah)
Battery no.	6 pcs (2 strings of 3 batteries)
Connector	Delta battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
N 1 kVA / 0,7 kW	UPS load (W)	70	140	210	280	350	420	490	560	630	700
	Backup (min)	75	51	32	22	17	13	10,5	9	7,5	6,5
N 1 kVA + 1BC	Backup (min)	350	200	140	100	78	60	49	41	36	30

Applicable to UPS:

- N-series 1kVA.



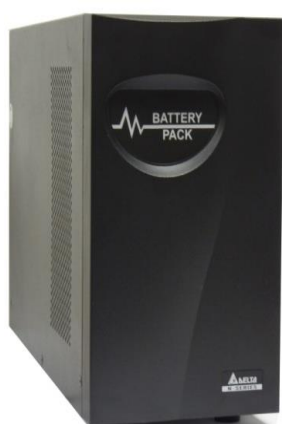
Battery cabinet for N 2/3kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock / 3ph modular](#)

PN: GES061A109035

SAP NAME: Battery Unit for N-2/3kVA

Description: External battery cabinet for N 2/3kVA UPS for extended backup time. Cabinet contains 6 pcs of 12V/9Ah batteries. Battery cable with delta connectors is included.



Technical specifications:

Dimensions (WxDxH)	140 x 425 x 373 mm
Weight	15kg
Nominal battery voltage	72VDC
Battery type	BB HR9-12 (9Ah)
Battery no.	6 pcs (1 string of 6 batteries)
Connector	Delta battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
N 2 kVA/ 1,4 kW	UPS load (W)	140	280	420	560	700	840	980	1120	1260	1400
	Backup (min)	75	51	32	22	17	13	10,5	9	7,5	6,5
N 2 kVA+1BC	Backup (min)	175	115	75	52	41	32	26	22	19	16

UPS	Load %	10	20	30	40	50	60	70	80	90	100
N 3 kVA / 2,1 kW	UPS load (W)	210	420	630	840	1050	1260	1470	1680	1890	2100
	Backup (min)	65	40	25	18	14	11	9	7,5	6,5	6
N 3 kVA+1EBC	Backup (min)	130	80	50	36	28	22	18	15	13	12

Applicable to UPS:

- N-series 2kVA and 3kVA.



Battery cabinet for Gaia 1kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES022B109000

SAP NAME: Battery Unit for GES102R200035

Description: External battery cabinet for Gaia 1kVA UPS for extended backup time. Cabinet contains 2 strings of 2 pcs 12V/9Ah batteries. Battery cable with Anderson connector is built-in.



Technical specifications:

Dimensions (WxDxH)	440 x 333 x 89 mm
Weight	16kg
Nominal battery voltage	24VDC
Battery type	CSB HR1234F2 (9Ah)
Battery no.	4 pcs (2 string of 2 batteries)
Connector	Anderson battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
GAIA 1kVA/0,8kW	UPS load (W)	80	160	240	320	400	480	560	640	720	800
	Backup (min)	60	33	21,5	15	12	9,5	7,5	6,5	5,5	4,5
GAIA 1kVA + EBC	Backup (min)	250	140	90	63	50	39	32	27	24	22

Applicable to UPS:

- Gaia series 1kVA.



Battery cabinet for Gaia 2kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES042B109000

SAP NAME: Battery Unit for GES202R200035

Description: External battery cabinet for Gaia 2kVA UPS for extended backup time. Cabinet contains 2 strings of 4 pcs 12V/9Ah batteries. Battery cable with Anderson connector is built-in.



Technical specifications:

Dimensions (WxDxH)	440 x 429 x 89 mm
Weight	29kg
Nominal battery voltage	48VDC
Battery type	CSB HR1234F2 (9Ah)
Battery no.	8 pcs (2 string of 4 batteries)
Connector	Anderson battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
GAIA 2kVA/1,6kW	UPS load (W)	160	320	480	640	800	960	1120	1280	1440	1600
	Backup (min)	60	33	21,5	15	12	9,5	7,5	6,5	5,5	4,5
GAIA 2kVA + EBC	Backup (min)	250	140	90	63	49	39	34	30	26	24

Applicable to UPS:

- Gaia series 2kVA.



Battery cabinet for Gaia 3kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES062B109000

SAP NAME: Battery Unit for GES302R200035

Description: External battery cabinet for Gaia 3kVA UPS for extended backup time. Cabinet contains 2 strings of 6 pcs 12V/9Ah batteries. Battery cable with Anderson connector is built-in.



Technical specifications:

Dimensions (WxDxH)	440 x 608 x 89 mm
Weight	43kg
Nominal battery voltage	72VDC
Battery type	CSB HR1234F2 (9Ah)
Battery no.	12 pcs (2 string of 6 batteries)
Connector	Anderson battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
GAIA 3kVA/2,1kW	UPS load (W)	210	420	630	840	1050	1260	1470	1680	1890	2100
	Backup (min)	65	40	25	18	14	11	9	7,5	6,5	6
GAIA 3kVA + EBC	Backup (min)	300	160	108	75	60	47	40	34	30	26

Applicable to UPS:

- Gaia series 3kVA.
- M series.



Battery cabinet for M 3kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES061B109235

SAP NAME: UPS SUPPORT KIT 6-1-9 FOR M3K

Description: External battery cabinet for M 3kVA UPS for extended backup time. Cabinet contains 1 string of 6 pcs 12V/9Ah batteries. Battery cable with Anderson connector is built-in.



Technical specifications:

Dimensions (WxDxH)	440 x 430 x 89 mm
Weight	23,3kg
Nominal battery voltage	72VDC
Battery type	BB HR9-12 (9Ah)
Battery no.	6 pcs (1 string of 6 batteries)
Connector	Anderson battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
M 1kVA / 0,9kW	UPS load (W)	90	180	270	360	450	540	630	720	810	900
	Backup (min)	60	33	21	15	12,5	10	8,2	6,8	5,9	5
M 1,5kVA/1,35 kW	UPS load (W)	135	270	405	540	675	810	945	1080	1215	1350
	Backup (min)	60	32	20	14,5	11	8,7	7,2	6	5	4,5
M 2kVA / 1,8kW	UPS load (W)	180	360	540	720	900	1080	1260	1440	1620	1800
	Backup (min)	65	36	24	18	12	10	8	7	6	4
M 3 kVA / 2,7kW	UPS load (W)	270	540	810	1080	1350	1620	1890	2160	2430	2700
	Backup (min)	60	30	20	14	11	9	8	6	5	4
M 3 kVA + 1BC	Backup (min)	120	60	40	28	22	18	16	12	10	8

Applicable to UPS:

- M series 3kVA.



Maintenance bypass box for single UPS 5~11kVA

Back to: [1~3kVA / 5~10kVA](#)

[3ph monoblock](#) / [3ph modular](#)

PN: 3915100706-S35

SAP NAME: F MANUAL BYPASS BOX FOR GAIA 5~11KVA

Description: Maintenance (manual) bypass box for single UPS installation, capacity up to 11kVA.



Technical specifications:

Dimensions (WxDxH)	440 x 195 x 88 mm
Weight	3,2kg
Input/Output voltage	200/208/220/230/240V
Input/Output current	63A
Manual bypass switch	63A/250V
Operating temperature	0~40°C
Operating elevation	0 to 2000 m

Applicable to UPS:

- RT-series.



Maintenance bypass box for parallel UPS 5~11kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100707-S35

SAP NAME: F MANUAL BYPASS BOX FOR PARALLEL

Description: Maintenance (manual) bypass box for two parallel UPS installation, capacity up to 11kVA. Box can be used only for redundant parallel connection, because of manual breaker capacity 63A and total power 11kVA. Bypass box is also possible to connect to both UPS by parallel cables and UPS are receiving status of manual bypass breaker.



Technical specifications:

Dimensions (WxDxH)	440 x 195 x 130,6 mm
Weight	4,8kg
Input/Output voltage	200/208/220/230/240V
Input/Output current	63A
Manual bypass switch	63A/250V
Operating temperature	0~40°C
Operating elevation	0 to 2000 m

Applicable to UPS:

- RT-series.



Battery cabinet for RT 5/6 kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES161B105700

SAP NAME: 5/6KVA EBM 12V/5Ah x 16pcs

RT6KB

Description: External battery cabinet 2U for RT 5/6 kVA UPS for extended backup time. Battery cabinet contains 16 pcs of 12V/5,5Ah batteries (main supply – BB BP5-12, faston T2 terminal) with nominal voltage 192V. Battery cable with delta connectors is included.



Technical specifications:

Dimensions (WxDxH)	440 x 610 x 88,5 mm
Weight	37kg
Nominal battery voltage	192VDC
Battery type	BB BP5-12 (5Ah)
Battery no.	16 pcs (1 string of 16 batteries)
Protection	3P breaker 50A/300Vdc
Connector	Delta battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
	UPS load (W)	450	900	1350	1800	2250	2700	3150	3600	4050	4500
RT 5 kVA + 1 EBC	Backup (min)	88,6	36,8	22,6	17,3	11,6	9,7	6,6	5,8	4,3	-
RT 5 kVA + 2 EBC	Backup (min)	191,5	91,9	50,3	38,4	30,8	23,2	19,9	17,4	15,5	11,6
RT 5 kVA + 3 EBC	Backup (min)	287,2	137,7	94,2	71,9	46,2	38,6	33,1	29	23,3	20,9
RT 5 kVA + 4 EBC	Backup (min)	404	198,5	125,6	95,9	77	51,5	44,2	38,7	34,5	31
	UPS load (W)	540	1080	1620	2160	2700	3240	3780	4320	4860	5400
RT 6 kVA + 1 EBC	Backup (min)	74,7	30,8	18,9	14,4	9,7	6,5	5,6	4,1	-	-
RT 6 kVA + 2 EBC	Backup (min)	161,2	77	42	32,1	23,2	19,3	16,6	14,5	10,8	9,7
RT 6 kVA + 3 EBC	Backup (min)	242	115,5	78,9	48,1	38,6	32,2	27,7	21,8	19,4	17,5
RT 6 kVA + 4 EBC	Backup (min)	323	166,7	105	80,1	51,5	43	37	32,3	28,7	23,3

Applicable to UPS:

- RT-series 5/6 kVA.



Empty battery cabinet for RT 5/6 kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES161B105700-N

SAP NAME: 5/6KVA Empty EBM (no battery)

RT6KB

Description: External battery cabinet 2U for RT 5/6 kVA UPS for extended backup time without battery. Inside the cabinet is space for 16 pcs of 12V/5,5Ah batteries (LxWxH size: 90x70x102 mm) with nominal voltage 192V. Battery interconnection cables and output cable with delta connectors is included.



Technical specifications:

Dimensions (WxDxH)	440 x 610 x 88,5 mm
Weight	37kg
Nominal battery voltage	192VDC
Battery type	No battery
Battery no.	16 pcs (1 string of 16 batteries)
Protection	3P breaker 50A/300Vdc
Connector	Delta battery connector

Applicable to UPS:

- RT-series 5/6 kVA.



Battery cabinet for RT 10 kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES201B109700

SAP NAME: 10KVA EBM 12V/9Ah x 20pcs

RT10KB

Description: External battery cabinet 3U for RT 10 kVA UPS for extended backup time. Battery cabinet contains 20 pcs of 12V/9Ah batteries (main supply – CBS HR1234WF2, faston T2 terminal) with nominal voltage 240V. Battery cable with delta connectors is included.



Technical specifications:

Dimensions (WxDxH)	440 x 595 x 130,6 mm
Weight	66kg
Nominal battery voltage	240VDC
Battery type	CSB HR1234WF2 (9Ah)
Battery no.	20 pcs (1 string of 20 batteries)
Protection	3P breaker 50A/300Vdc
Connector	Delta battery connector

Runtime table:

UPS	Load %	10	20	30	40	50	60	70	80	90	100
	UPS load (W)	900	1800	2700	3600	4500	5400	6300	7200	8100	9000
RT 10 kVA + 1 EBC	Backup (min)	90	38	23	16	11,5	9,5	6,5	6	4,4	4
RT 10 kVA + 2 EBC	Backup (min)	202	95,6	51,9	39,5	31,7	23,8	20,4	17,9	15,9	11,9
RT 10 kVA + 3 EBC	Backup (min)	303	155	97,3	74,1	47,5	39,6	34	29,8	23,8	21,5
RT 10 kVA + 4 EBC	Backup (min)	429	206	129,9	98,8	79,2	52,8	45,4	39,7	35,3	31,8

Applicable to UPS:

- RT-series 10 kVA.



Empty battery cabinet for RT 10 kVA

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: GES201B109700-N

SAP NAME: 10KVA Empty EBM (no battery)

RT10KB

Description: External battery cabinet 3U for RT 10 kVA UPS for extended backup time without battery. Inside the cabinet is space for 20 pcs of 12V/9Ah batteries (LxWxH size: 151x65x94 mm) with nominal voltage 240V. Battery interconnection cables and output cable with delta connectors is included.



Technical specifications:

Dimensions (WxDxH)	440 x 595 x 130,6 mm
Weight	66kg
Nominal battery voltage	240VDC
Battery type	No battery
Battery no.	20 pcs (1 string of 20 batteries)
Protection	3P breaker 50A/300Vdc
Connector	Delta battery connector

Applicable to UPS:

- RT-series 10 kVA.



Temperature sensor

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3790304700

SAP NAME: BATTERY TEMP RC-200G/HA A

Description: Temperature sensor for battery charging compensation. Sensor is directly connected to UPS port.



Applicable to UPS:

- NH plus.
- DPH series (M board made before 14.01.2014).
- DPS series.



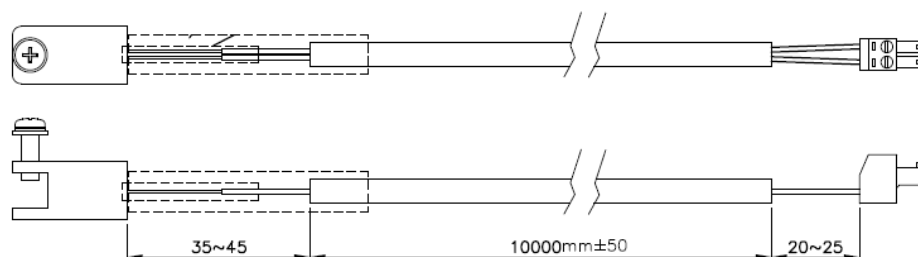
DPH battery temperature sensor

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915101381-S

SAP NAME: SPARE PART ASSY TEMP. SENSOR CABLE (DPH)

Description: New temperature sensor 10m long for battery charging compensation. Sensor is directly connected to UPS port.



Applicable to UPS:

- NH plus.
- DPH series (new M board made after 14.01.2014 and from FW version 12).



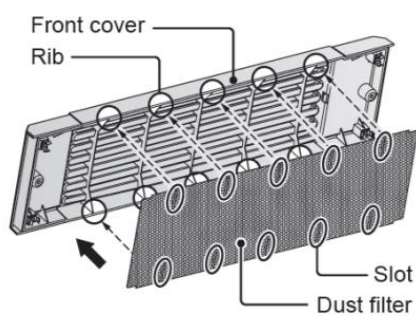
Dust filter for NH+ series

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3915100965-S35

SAP NAME: DUST FILTER ASSY HP-SERIES(120K)

Description: Dust filter for NH+ chassis. There are 11 pcs in one package.



Applicable to UPS:

- NH+ series.



Dust filter for DPH series

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3915101279-S35

SAP NAME: DUST FILTER ASSY DPH-SERIES(75/150/200K)

Description: DPH dust filters for harsh environment UPS operation.

Applicable to UPS:

- DPH series.



T board for NH+ power module calibration

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 5505001595-S

SAP NAME: F PWB ASSY HP-PM-TC

Description: Accessory board required for NH+ power module inverter output calibration.

T board can be used only by Authorized Service Partner (ASP) with level 2 training.

Applicable to UPS:

- NH+ series (ASP level 2 required).



EH battery cabinet empty

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3799333400

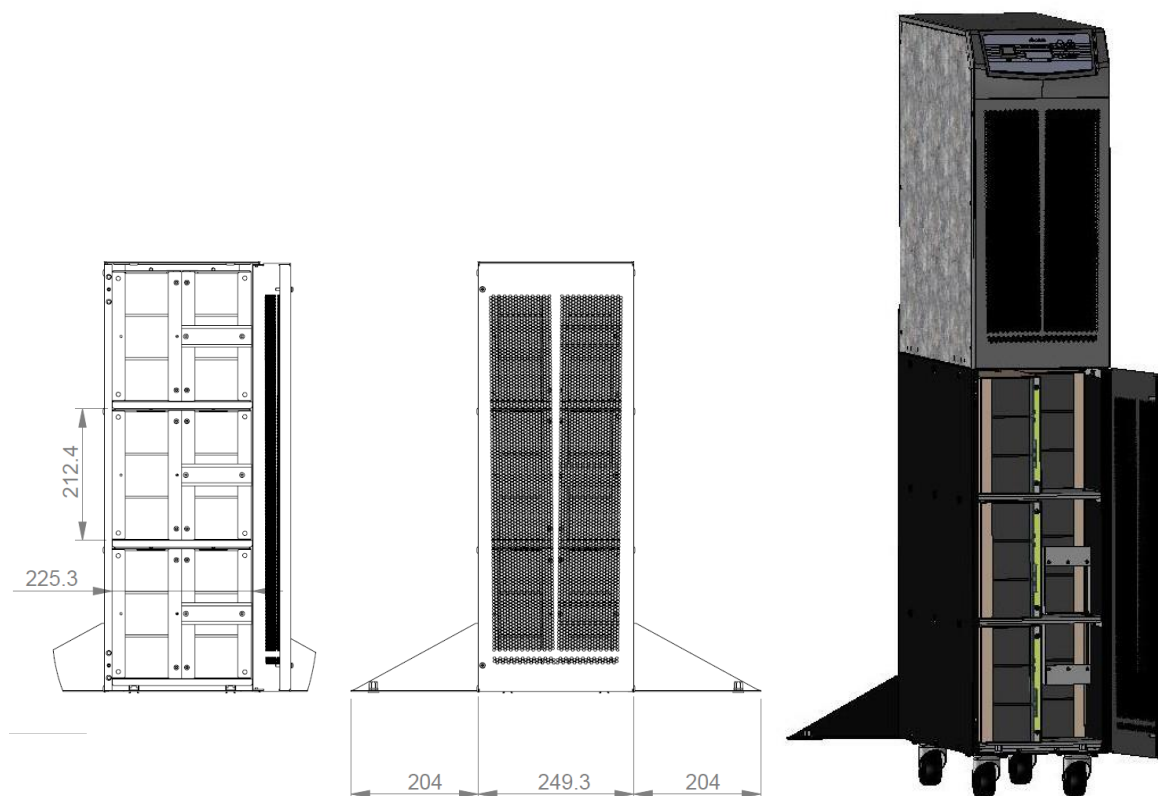
SAP NAME: BATT CAB UPS EH 10-20kVA 3*20*9AH EMPTY

Description: Battery cabinet for EH-series UPS. UPS is possible to install on top of the cabinet. Cabinet includes battery cabling and protection.

Cabinet dimensions: 690 x 250 x 640 mm (HxWxD)

Weight: 67kg / 222kg with batteries

Battery: max. 3 strings of 20 batteries 9Ah/12V



Applicable to UPS:

- EH-series.



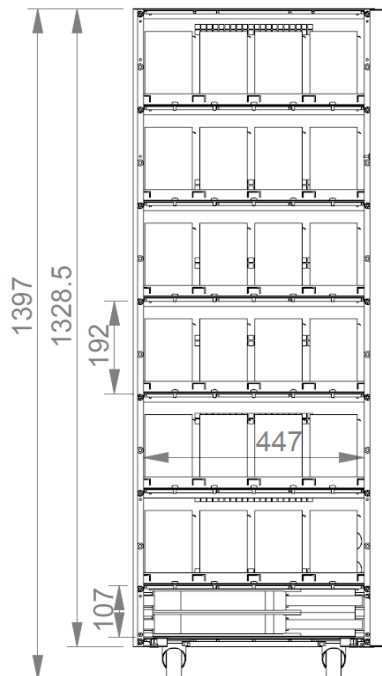
HPH battery cabinet empty

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3799356100

SAP NAME: BATT CAB UPS HPH 20-40kVA 5*40*9AH EMPTY

Description: Battery cabinet for HPH-series UPS. Cabinet includes battery cabling and protection.
 Cabinet dimensions: 1400 x 490 x 824 mm (HxWxD)
 Weight: 128 kg (without battery), 628 kg with 5 battery strings
 Battery: max. 5 strings of 40 batteries 9Ah/12V (optional 6 strings).



Applicable to UPS:

- HPH-series.



NH plus battery cabinet 26Ah

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[3ph monoblock](#) / [3ph modular](#)*

PN: GES401H02600035

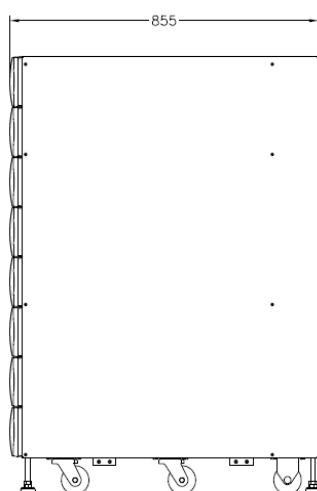
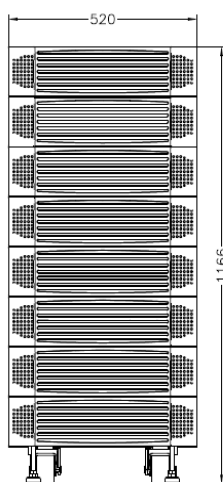
SAP NAME: UPS SUPPORT KIT 40-1-026 NH-SERIES

Description: Battery cabinet for NH+ series UPS. Cabinet has the same design as NH+ 80kVA chassis and includes battery cabling and protection.

Cabinet dimensions: 1165 x 520 x 855 mm (HxWxD)

Weight: 485 kg

Battery: 40 batteries 26Ah/12V



Applicable to UPS:

- NH+ series.



NH plus battery cabinet 40Ah

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[3ph monoblock](#) / [3ph modular](#)

PN: GES401H04000035

SAP NAME: UPS SUPPORT KIT 40-1-040 NH-SERIES

Description: Battery cabinet for NH+ series UPS. Cabinet has the same design as NH+ 120kVA chassis and includes battery cabling and protection.

Cabinet dimensions: 1700 x 520 x 855 mm (HxWxD)

Weight: 720 kg

Battery: 40 batteries 40Ah/12V



Applicable to UPS:

- NH+ series.



UPS Battery cabinet TFH

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3791722600

SAP NAME: ASM BATT CAB TFH NH2+PK2+SWITCH (NHPlus)

Description: Battery cabinet for EH, HPH, NH+ and DPS series UPS .

Cabinet dimensions:	2000 x 600 x 800 mm (HxWxD)
Weight:	120 kg (without batteries and cables)
Battery:	20 batteries up to 100Ah or 40 batteries up to 55Ah
Protection:	NH2 fuses for battery protection (Semiconductor fuse) gR characteristic (fuse is selected separately with cable kit for proper UPS capacity) Switch disconnecter to isolate battery from UPS in emergency case or maintenance
Cabling:	Not included.



Applicable to UPS:

- EH, HPH, NH+, DPS series (small batteries up to 55Ah).



UPS Battery cabinet TJH (NH2)

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3791722700

SAP NAME: ASM BATT CAB TJH NH2+PK2+SWITCH (NHPlus)

Description: Battery cabinet for HPH, NH+, DPS and DPH series UPS .

Cabinet dimensions:	2000 x 1000 x 800 mm (HxWxD)
Weight:	196 kg (without batteries and cables)
Battery:	40 batteries up to 125Ah
Protection:	NH2 fuses up to 400A for battery protection (Semiconductor fuse) gR characteristic (fuse is selected separately with cable kit for proper UPS capacity) Switch disconnecter to isolate battery from UPS in emergency case or maintenance
Cabling:	Not included.



Applicable to UPS:

- HPH, NH+, DPS and DPH series.



UPS Battery cabinet TJH (NH3)

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[3ph monoblock](#) / [3ph modular](#)

PN: 3791722800

SAP NAME: ASM BATT CAB TJH NH3+PK3+SWITCH (DPS)

Description: Battery cabinet for DPS and DPH series UPS .

Cabinet dimensions:	2000 x 1000 x 800 mm (HxWxD)
Weight:	202 kg (without batteries and cables)
Battery:	40 batteries up to 125Ah
Protection:	NH3 fuses up to 630A for battery protection (Semiconductor fuse) gR characteristic (fuse is selected separately with cable kit for proper UPS capacity) Switch disconnecter to isolate battery from UPS in emergency case or maintenance
Cabling:	Not included.



Applicable to UPS:

- DPS, DPH series.



UPS Battery cabinet 2xTFH

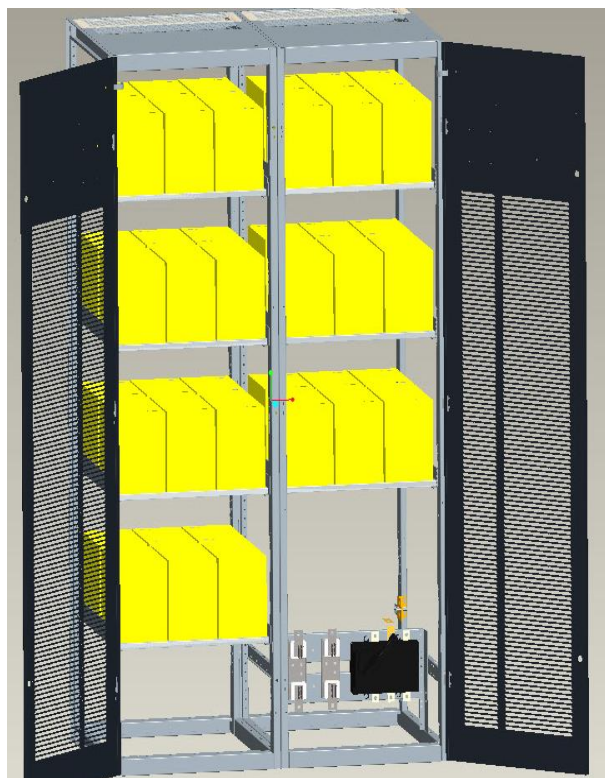
Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: 3791722900

SAP NAME: ASM BATT CAB 2xTFH NH2+PK2+SW (NHPlus)

Description: Battery cabinet for DPS and DPH series UPS .

Cabinet dimensions: 2000 x 1200 x 800 mm (HxWxD)
Weight: 193 kg (without batteries and cables)
Battery: 40 batteries up to 200Ah
Protection: NH2 fuses up to 400A for battery protection (Semiconductor fuse) gR characteristic (fuse is selected separately with cable kit for proper UPS capacity)
Switch disconnecter to isolate battery from UPS in emergency case or maintenance
Cabling: Not included.



Applicable to UPS:

- DPS, DPH series.



UPS Battery frame 2xVFF

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[3ph monoblock](#) / [3ph modular](#)

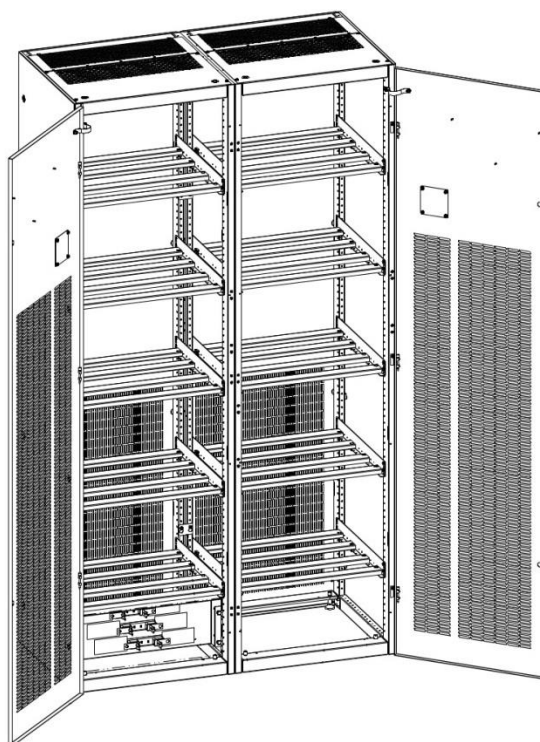
PN: 3799271100 + 3799271500

SAP NAME: VFF UPS PK0 + VFF UPS w/o PK0

Description: Battery frame for front terminal batteries - DPS and DPH series UPS. Frame has two parts: **VFF UPS PK0** (contains NH0 size fuse holders up to 160A) and **VFF UPS w/o PK0**. For currents over 160A, extra protection box is needed with NH2/NH3 holders.

Optional possibility to add doors and walls to the frame and create VLF battery cabinet.

Cabinet dimensions:	2200 x 1200 x 600 mm (HxWxD)
Weight:	103,6 kg (without batteries and cables)
Battery:	40 front terminal batteries up to 200Ah
Protection:	built in NH0 fuses up to 160A for battery protection (Semiconductor fuse) gR characteristic (fuse is selected separately with cable kit for proper UPS capacity)
Cabling:	Not included.



Applicable to UPS:

- DPS, DPH series.



Power module 20kVA for NH plus

*Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)*

PN: 3915100486-S

SAP NAME: POWER ASSY 20K/3U HP-PM

Description: Power module with capacity 20kVA / 16kW for NH+ UPS chassis. Power module contains rectifier, PFC, inverter and inverter static switch. This power module is phased out and will be replaced by new power module [3915101156](#) compatible with NH+ and DPS 60-120kVA.



Applicable to UPS:

- NH+ series.



Power module 20kVA for DPS60-120kVA and NH plus

Back to: [1~3kVA / 5~10kVA](#)

[3ph monoblock](#) / [3ph modular](#)

PN: 3915101156

SAP NAME: POWER ASSY 20K/3U NH+ PM_NEW

Description: Power module with capacity 20kVA / 18kW for NH+ chassis and DPS 60-120 kVA UPS.
Power module contains rectifier, PFC, inverter and inverter static switch.



Applicable to UPS:

- DPS 60-120kVA.
- NH+ series.



Power module 25kVA for DPH

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[3ph monoblock](#) / [3ph modular](#)*

PN: 3915100909-S

SAP NAME: POWER ASSY 25KW/3U DPH-PM

Description: Power module with capacity 25kVA / 25kW for DPH chassis. Power module contains rectifier, PFC, inverter and inverter static switch.



Applicable to UPS:

- DPH 75, 150 and 200kVA.



Power distribution unit – metered, 1phase, 16A

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

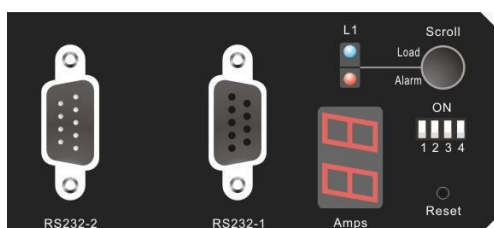
PN: PDU1311A2710001

SAP NAME: F PDU I=230/240V 1PH 16A H-R

Description: Power distribution unit for standard rack cabinet installation. PDU provides optimal power distribution for devices supplied by UPS.

Metered PDU with 2xRS232 interface, display, LEDs and optional SNMP card.

PDU dimensions:	48x1250x50/90 mm (WxHxD)
Weight:	4,56 kg
Input:	230/240V, IEC309-16A-3W plug
Output:	200-240V, IEC320 C13 (24x) and IEC320 C19 (3x)
Protection:	20A/2P breaker
Display:	current in Amperes for selected load group
LEDs:	alarm conditions



Applicable to UPS (UPS output power distribution required):

- RT series.
- EH series.
- HPH series.
- NH+ series.
- DPH series.
- DPS series.



Power distribution unit – metered, 1phase, 32A

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: PDU1315A2810001

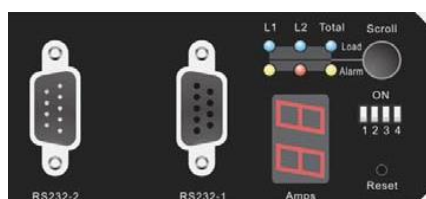
SAP NAME: F PDU I=230/240V 1PH 32A H-R

Description: Power distribution unit for standard rack cabinet installation. PDU provides optimal power distribution for devices supplied by UPS.

Metered PDU with 2xRS232 interface, display, LEDs and optional SNMP card.

Each load group is protected by branch circuit breaker.

PDU dimensions:	48x1250x50/90 mm (WxHxD)
Weight:	5,44 kg
Input:	230/240V, IEC309-32A-3W plug
Output:	200-240V, IEC320 C13 (24x) and IEC320 C19 (3x)
Protection:	2 x 20A/2P breaker
Display:	current in Amperes for selected load group
LEDs:	alarm conditions



Applicable to UPS (UPS output power distribution required):

- RT series.
- EH series.
- HPH series.
- NH+ series.
- DPH series.
- DPS series.



Power distribution unit – basic, 1phase, 32A

Back to: [1~3kVA / 5~10kVA](#)

[3ph monoblock](#) / [3ph modular](#)

PN: PDU5315A2800000

SAP NAME: F PDU I=230/240V 1PH 32A H-RACK

Description: Power distribution unit for standard rack cabinet installation. PDU provides optimal power distribution for devices supplied by UPS.

Basic PDU without metering.

Each load group is protected by branch circuit breaker.

PDU dimensions: 48x1250x50/90 mm (WxHxD)

Weight: 4,9 kg

Input: 230/240V, IEC309-32A-3W plug

Output: 200-240V, IEC320 C13 (24x) and IEC320 C19 (4x)

Protection: 2 x 20A/1P breaker

Applicable to UPS (UPS output power distribution required):

- RT series.
- EH series.
- HPH series.
- NH+ series.
- DPH series.
- DPS series.



Power distribution unit – basic 1U, 1phase, 16A

Back to: [1~3kVA / 5~10kVA](#)

[3ph monoblock](#) / [3ph modular](#)

PN: PDU7311A1200000

SAP NAME: F PDU I=230/240V 1PH 16A 1U

Description: Power distribution unit for standard rack cabinet installation. PDU provides optimal power distribution for devices supplied by UPS.

Basic PDU without metering.

Load is protected by 20A output circuit breaker.

PDU dimensions:	440x44x55 mm (WxHxD)
Weight:	1,48kg
Input:	220/230/240V, IEC309-16A-3W plug
Output:	200-240V, IEC320 C13 (12x)
Protection:	20A/1P breaker



Applicable to UPS (UPS output power distribution required):

- RT series.
- EH series.
- HPH series.
- NH+ series.
- DPH series.
- DPS series.



Power distribution unit – metered, 3phase, 16A

Back to: [1~3kVA / 5~10kVA](#)
[3ph monoblock](#) / [3ph modular](#)

PN: PDU2421A3910001

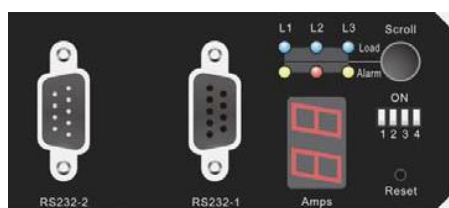
SAP NAME: F PDU I=380/400V 3,Y 16A F-R

Description: Power distribution unit for standard rack cabinet installation. PDU provides optimal power distribution for devices supplied by UPS.

Metered PDU with 2xRS232 interface, display, LEDs and optional SNMP card.

Each load group is protected by branch circuit breaker.

PDU dimensions:	48x1560x50/90 mm (WxHxD)
Weight:	6,06 kg
Input:	220/380, 230/400, IEC309-16A-5W plug
Output:	200-240V, IEC320 C13 (36x) and IEC320 C19 (3x)
Protection:	3 x 20A/2P breaker
Display:	current in Amperes for selected load group
LEDs:	alarm conditions



Applicable to UPS (UPS output power distribution required):

- HPH-series
- NH+ series.
- DPH-series.
- DPS-series.



Power distribution unit – metered, 3phase, 32A

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[3ph monoblock](#) / [3ph modular](#)

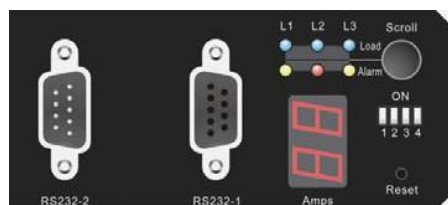
PN: PDU1425A1210000

SAP NAME: F PDU I=380/400V 3,Y 32A H-RACK

Description: Power distribution unit for standard rack cabinet installation. PDU provides optimal power distribution for devices supplied by UPS.

Metered PDU with 2xRS232 interface, display, LEDs and optional SNMP card.

PDU dimensions:	48x1250x50/100 mm (WxHxD)
Weight:	6,45 kg
Input:	220/380, 230/400, IEC309-32A-5W plug
Output:	200-240V, IEC320 C13 (3x) and IEC320 C19 (9x)
Protection:	3 x 35A/2P breaker
Display:	current in Amperes for selected load group
LEDs:	alarm conditions



Applicable to UPS (UPS output power distribution required):

- HPH-series
- NH+ series.
- DPH-series.
- DPS-series.



Power distribution unit – basic 1U, 3phase, 32A

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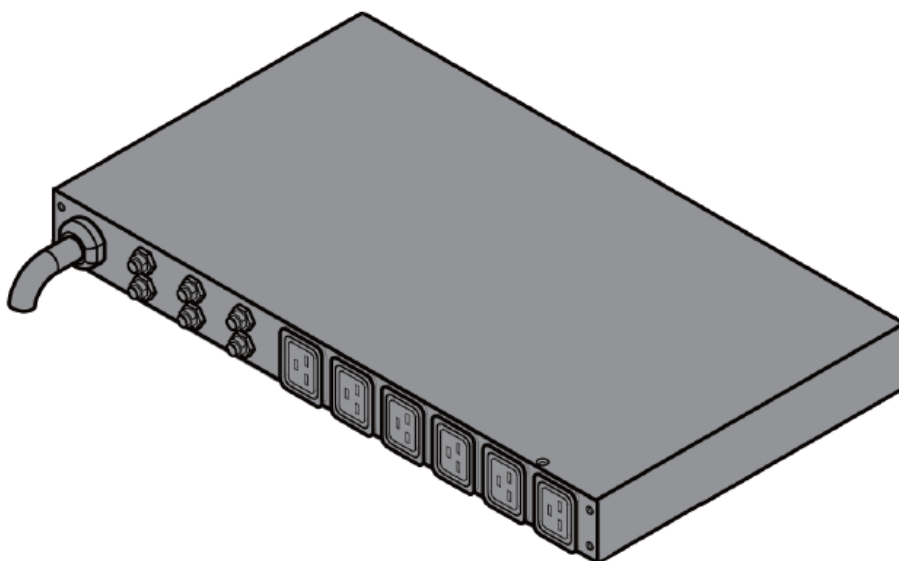
PN: PDU7425A0600000

SAP NAME: F PDU I=380/400V 3,Y 32A 1U

Description: Power distribution unit for standard rack cabinet installation. PDU provides optimal power distribution for devices supplied by UPS.

Basic PDU without metering.

PDU dimensions:	440x44x250 mm (WxHxD)
Weight:	4,8 kg
Input:	3phase, 220/380, 230/400, IEC309-32A-5W plug
Output:	200-240V, IEC320 C19 (6x)
Protection:	6 x 20A breaker



Applicable to UPS (UPS output power distribution required):

- HPH-series
- NH+ series.
- DPH-series.
- DPS-series.



DPH battery module

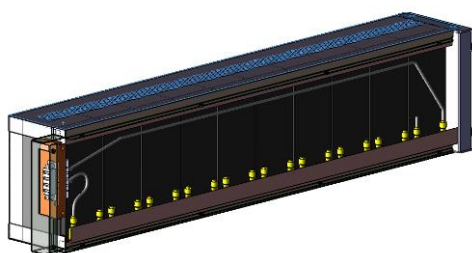
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PN: 3912000285-S

SAP NAME:

Description: Hot swappable battery module for DPH 75kVA model only, includes 4 battery trays without battery. Maximum capacity is 4 battery modules.

Module dimensions: 154,4 x 109 x 723,2 mm (WxHxD)
 Weight: 30 kg
 Battery: 12V/ 7,2 or 9Ah x 10 pcs (Compatible with CSB HR1234WF2, CSB UPS12580, BB HRC9-12)



Runtime table (in minutes):

No of PM	Load (kW)	CSB GP1272				BB HCR9-12				CSB UPS12580			
		Battery strings				Battery strings				Battery strings			
		1	2	3	4	1	2	3	4	1	2	3	4
1	25	-	4	9	15	-	7	13	19	3	9	18	25
2	50	-	-	-	4	-	-	4	7	-	3	7	10
3	75	-	-	-	-	-	-	-	-	-	-	3	6

Applicable to UPS:

- DPH-series 75kVA.



RPDC Frame for DPH

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PN: PDC130CA0800135

SAP NAME:

Description: Rack-mount PDC for DPH 75/150kVA allows installation of maximum 6 hot-swappable 16 or 32A breaker modules (connection for 18 branches). RPDC supports SNMP IPv6 card and built-in CAN bus port allows communication with UPS.

Module dimensions: 430 x 173 x 665 mm (WxHxD)

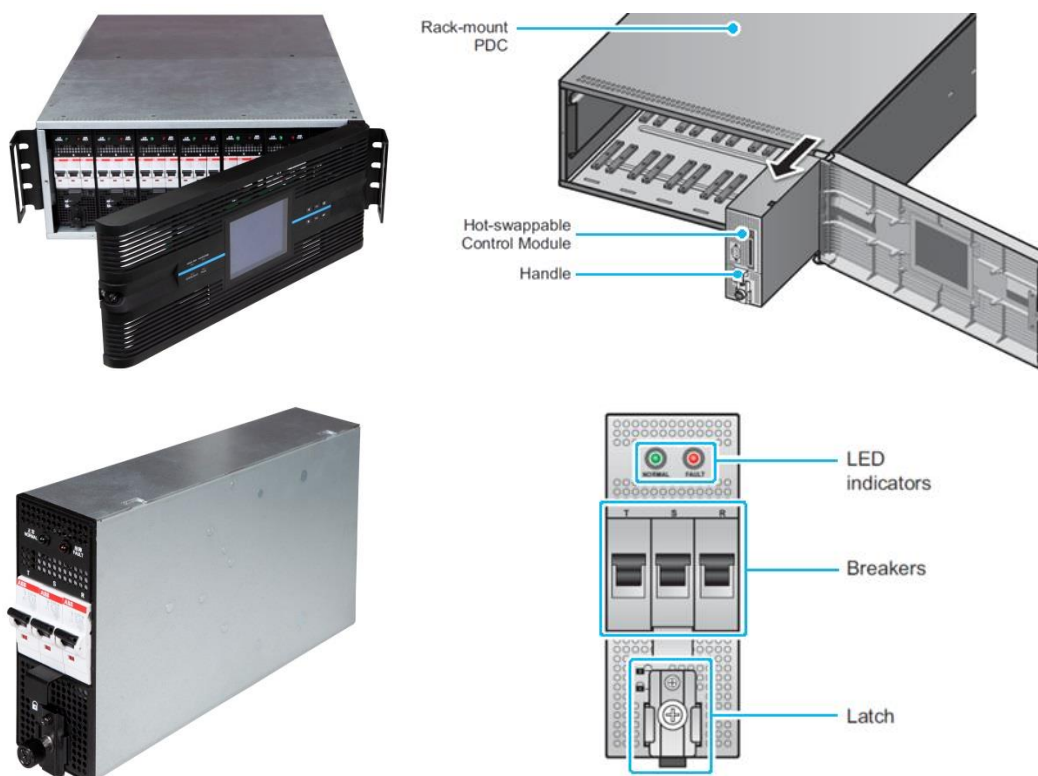
Weight: up to 38 kg

Capacity: 1 to 6 hot-swappable breaker modules:

16A - 3915101246-S, up to 3kVA

32A - 3915101243-S, up to 5kVA

Interface: RS-232 port, CAN bus port, Smart slot, Output dry contact, REPO



Applicable to UPS:

- DPH-series 75kVA and 150kVA.



N Series, Single Phase, 1/2/3 kVA

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[3ph monoblock](#) / [3ph modular](#)

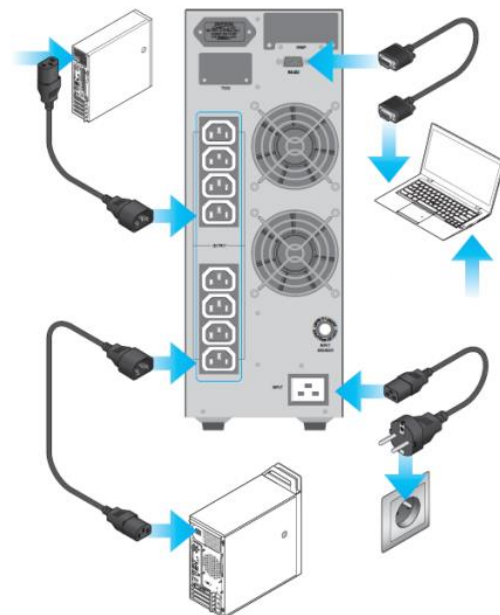
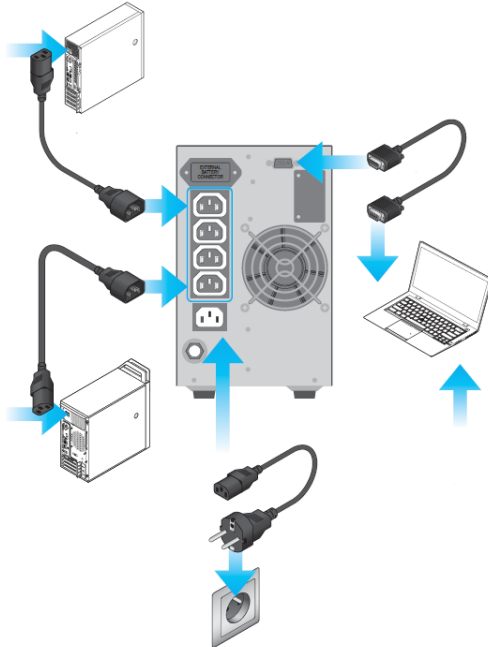


The Amplon N series is a true on-line, double-conversion UPS housed in a compact tower. It is designed to eliminate disturbances and supply superior power quality to workstations, POSs, ATMs or home appliances.

The Amplon N series has inbuilt batteries to provide continuous and stable power to critical loads when power events occur. For longer backup time requirements you can add an external battery pack to enhance availability.

Features:

- Double-conversion technology provides 24/7 full-time protection.
- Battery-start capability without utility power.
- Automatic bypass ensures continuous output power when fault occurs.
- Automatic input frequency detection.
- Optional external battery pack for longer backup time.
- RS232 port with power management software.
- Wide input voltage range reduces battery discharging occurrence and prolongs battery lifetime.
- Intelligent management prevents battery from over discharge.



UPS package content:

- N 1kVA: RS232 cable, Power Cord, Test Report, User Manual, Software CD.
- N 2/3kVA: RS232 cable, Power Cord, Tower Stand, Test Report, User Manual, Software CD.



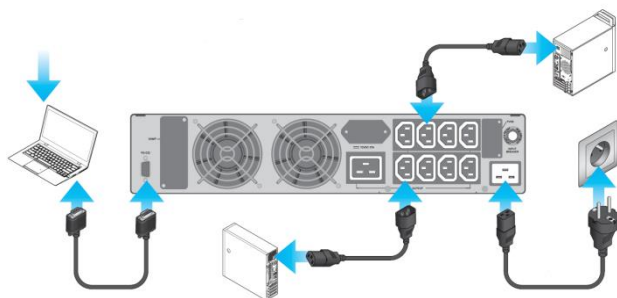
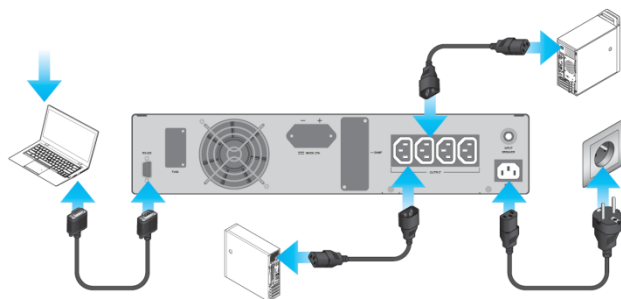
R Series, Single Phase, 1/2/3 kVA

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The Amplon R series is a true on-line, double-conversion UPS, that protects devices from potential power problems such as spikes, surges and brownouts. It is available in either a rack or tower configuration and is recommended for servers, VoIP, telecommunications and networking.

The Amplon R series is designed for long backup time applications with the addition of a customized battery source. The inbuilt high level charger shortens the recharging period and increases availability.



Features:

- Double-conversion technology provides 24/7 full-time protection.
- Automatic input frequency detection.
- Additional charger board can be added to reduce recharging time.
- AC-start and battery-start capabilities.
- Rail kit is included in the package.
- Rack or tower configuration in 2U size cabinet.
- Fulfill long backup time demand for mission critical applications.
- Remote management over network via software.
- High input power factor (pf > 0.97) saves installation cost.
- Wide input voltage range reduces battery discharging occurrence and prolongs battery lifetime.

UPS package content:

- R 1kVA: RS232 cable, Input Power Cord 10A, Output Power Cord 10A, Battery Cable Connectors Delta/Free, Rail Kit, Bracket Ears, Test Report, User Manual, Software CD.
- R 2/3kVA: RS232 cable, Input Power Cord 16A, Output Power Cord 10A, Output Power Cord 16A, Battery Cable Connectors Delta/Free, Rail Kit, Bracket Ears, Test Report, User Manual, Software CD.



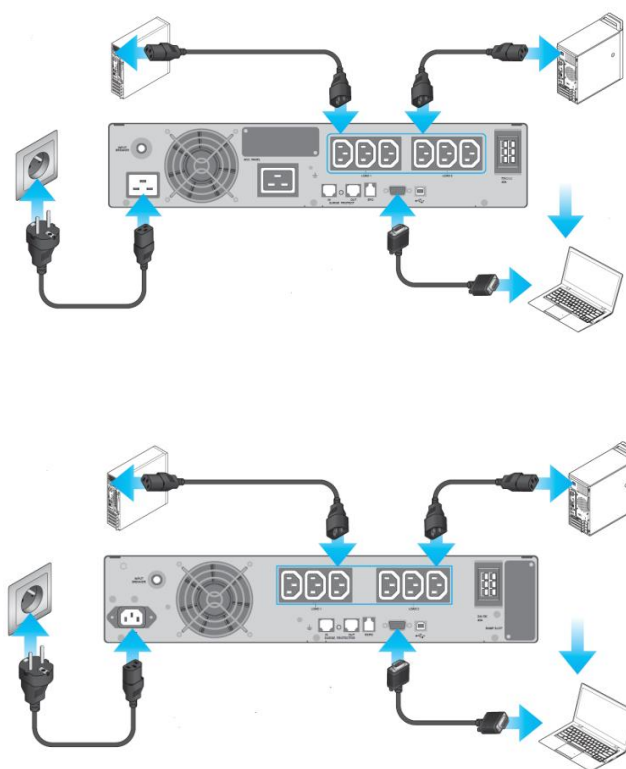
GAIA Series, Single Phase, 1/2/3 kVA

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The Amplon GAIA series is a true on-line, double-conversion UPS designed in a rack or tower configuration and recommended for servers, VoIP, telecommunications and networking. This versatile UPS combines features such as full-time protection and high input power factor in the small footprint of a 2U cabinet.

The Amplon GAIA series UPS has inbuilt batteries to provide continuous and stable power to your critical loads when power events occur. With an external battery pack, it can fulfill longer backup time requirements.



Features:

- Double-conversion technology provides 24/7 full-time protection.
- Built-in batteries for basic runtime demands.
- Battery-start capability without utility power.
- RS232 and USB connectivity with power management software.
- Built-in data line surge protector for phone / fax / network.
- Rack or tower configuration in 2U size cabinet.
- Optional external battery pack for longer backup time.
- SNMP slot for mission critical applications.
- Programmable output saves energy for important loads.
- Wide input voltage range and stable power supply extends battery lifetime.
- High input power factor (pf > 0.97) saves installation cost.
- Intelligent management prevents battery from over discharge.

UPS package content:

- Gaia 1kVA: RS232 cable, Input Power Cord 10A, Output Power Cord 10A, Tower Stand, Bracket Ears, Test Report, User Manual, Software CD, Quick Guide.
- Gaia 2/3kVA: RS232 cable, Input Power Cord 16A, Output Power Cord 10A, Output Power Cord 16A, Tower Stand, Bracket Ears, Test Report, User Manual, Software CD, Quick Guide.



M Series, Single Phase, 1/1.5/2/3 kVA

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The Amplon M series is a line-interactive UPS providing sine-wave quality ideally suited for devices in small and medium businesses. Automatic voltage regulator (AVR) delivers stable voltage while providing higher availability. It is available in either rack or tower configuration to fit multiple applications such as servers, networking, VoIP and telecommunications.

The Amplon M features excellent normal mode efficiency and high output power factor, resulting in a greater power supply for critical loads at significantly less operating cost.

Features:

- Hot swappable battery pack for easy maintenance.
- Automatic voltage regulator (AVR) delivers stable output voltage.
- Wide input voltage range reduces battery discharge occurrence and extends battery life.
- Battery starts when utility power is not present.
- Self-test for battery replacement warning.
- Rack or tower configuration in 2U size cabinet.
- Optional external battery pack (applicable for 3kVA model) for extendable backup time.
- Communication slot for various smart cards to support various applications.
- Intelligent management software connectivity via RS232 or USB port.
- High output power factor 0.9 provides more real power to critical loads.
- High efficiency online mode can reach at minimum 97% and 96% for 1/1.5kVA and 2/3kVA respectively supporting operating cost savings.
- Automatic fan-speed control function lowers noise and prolongs fan life under different operation modes with lower speed.

UPS package content:

- M 1/1,5kVA: RS232 cable, Input Power Cord 10A, Output Power Cord 10A, Rail Kit, Bracket Ears, Test Report, User Manual, Software CD, Quick Guide.
- M 2/3kVA: RS232 cable, Input Power Cord 16A, Output Power Cord 10A, Output Power Cord 16A, Rail Kit,, Bracket Ears, Test Report, User Manual, Software CD, Quick Guide.



RT Series, Single Phase, 5/6/10 kVA

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The Amplon RT series delivers double-conversion on-line technology, high power density and input power factor, and low current harmonics with its advanced architecture. Designed in a rack or tower configuration with an LCD display, Amplon RT offers advanced performance for servers, data centers, networking, VoIP and telecommunications.

The Amplon RT has 1+1 parallel redundancy function to provide higher reliability. Optional external battery pack can be added to fulfill longer backup time for mission critical applications.



Features:

- True online double-conversion topology provides 24/7 fulltime protection.
- 1+1 parallel redundancy or expansion without requiring additional hardware.
- AC-start and battery-start capabilities.
- Additional charger board can be added to reduce recharging time.
- Optional maintenance bypass box for parallel redundancy with manual bypass switch.
- External charger box enhances battery charging ability.
- Rack or tower configuration.
- Multi-language LCD display with blue backlight.
- Optional external battery pack for longer backup time.
- Output factor 0.9 delivers more real power.
- High input power factor ($pf > 0.99$) and low harmonic distortion ($iTHD < 5\%$).
- Common battery installation enables two UPS in parallel to share one battery source for cost savings.
- Wide input voltage range reduces battery discharging occurrence and prolongs battery lifetime.



UPS package content:

- RS232 cable, Parallel Cable, Battery Cable Connectors Delta/Free, Terminal, Tower Stand with expander, Bracket Ears, Test Report, User Manual, Software CD.



EH Series, Three Phase In - Single Phase Out

10/15/20 kVA

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The Ultron EH series is an online double-conversion 3p-1p UPS which provides reliable power protection for IT rooms, SMBs, telecommunications, banking, medical facilities and industry. Supported with DSP based technology, it offers rapid computation capabilities that enhance system stability and provide precise voltage to load.

The Ultron EH series offers many superior features including N+X parallel redundancy and a built-in manual bypass switch to guarantee higher availability and reliability for protecting your critical loads.

Features:

- True online double-conversion technology to completely isolate the output power from all input anomalies
- DSP based technology to support rapid computation capability and a simplified control circuit for enhanced stability
- Dual input design to allow different power supply sources for enhanced availability
- Built-in manual bypass to ensure continuous power to the load even if the UPS fails
- A wide input voltage range of up to 305~477V to reduce battery discharge probability and prolong battery life
- ECO mode efficiency up to 96% to reduce operating cost
- Small footprint to save space
- Parallel expansion and N+X redundancy up to 4 units without requiring additional cards or equipment
- Additional charger and external charger box for flexible capacity expansion
- Remote and local emergency power-off functions (EPO) to promptly manage the UPS when emergencies occur
- Multi-connectivity interface to support remote UPS monitoring and management



HPH Series, Three Phase 20/30/40 kVA

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The Ultron HPH is a true online double-conversion UPS offering the best-in-class combination of maximum available power, unbeatable energy efficiency and superior power performance for small data centers and other mission critical applications requiring highly reliable power protection. With fully rated power (kVA=kW); the Ultron HPH provides maximum available power without de-rating the UPS. Thanks to Triple Level Inverter and Delta's innovative Three Phase PFC topology, it features low iTHD <3%, up to 96 % AC-AC efficiency and 99% efficiency in ECO mode resulting in significant TCO (Total Cost of Ownership) savings. Facilitating increased availability through watch-dog design, the Ultron HPH is an ideal solution for protecting mission critical operations.

Features:

- Fully rated power (kVA=kW) for maximum available power
- Leading AC-AC efficiency up to 96% saves energy costs
- Low harmonic pollution (iTHD<3%) & high input power factor (>0.99) reduce upstream investment costs
- Wide input voltage range allows the UPS to operate in harsh electrical environments and extends battery life
- DSP based technology enables reduction in the number of electronic components to lower failure rate
- Redundant auxiliary power enhances system reliability
- Watch-dog design of dual auxiliary power circuit to eliminate single-point failure to ensure reliability
- Built-in manual bypass ensures continuous power to the load even if the UPS is under maintenance
- A wide choice of configurations, such as N+X redundancy, and hot stand-by
- Front-door battery replacement with hot-swappable battery tray design supports easy and quick replacement without turning the unit off (HPH-B / BN)
- Adjustable charging current and charging voltage meet different battery configuration requirements
- Flexible arrangement of battery quantity from 34 to 50 pcs optimizes battery investment
- Multi-connectivity interface supports remote UPS monitoring and management
- Advanced management software provides remote shutdown, event log tracking and analysis



DPS Series, Three Phase 60 to 400 kVA

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Delta's Ultron DPS is a double-conversion and IGBT-rectifier three phase UPS. With state-of-the-art TLI (Triple Level Inverter) and three phase PFC (power factor correction) topology, the Ultron DPS features industry leading performance of up to 96 % AC-AC efficiency, input power factor > 0.99, output power factor of up to 0.9 and low iTHD < 3%. Aiming to achieve the highest availability possible, Delta has enhanced special designs for battery management, swappable fans and ease of maintenance.

The excellent power performance and high system availability of the Ultron DPS provide customers with the benefits of a stable power supply, high power efficiency, low capital investment and low overall operation cost.

Features:

- N+X redundancy or hot-standby configuration increases system reliability
- Wide input voltage range (DPS 60~120kVA : -45% ~ +20% ; DPS 160~400kVA : -40% ~ +20%) allows the UPS to work in harsh electrical environments
- Field programmable sequential start-up
- Intelligent fan speed control and redundant fan design prevent overheating
- Comprehensive battery management sustains battery lifetime and optimal operation
- High efficiency even at light load saves operating costs
- High input power factor (> 0.99) and low input harmonic distortion (iTHD < 3%) save upstream investment
- Parallel expansion without extra hardware allows quick capacity upgrade to meet business growth
- Swappable fans reduce maintenance lead time
- Built-in manual bypass allows "zero downtime" to ensure system availability during service maintenance
- Main I/P, O/P and bypass switches detection provide quick diagnosis when faults occur



NH Plus Series, Three Phase 20 to 120 kVA

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The Modulon NH Plus series is Delta's next generation UPS featuring high efficiency, hot-swappable modular structure and N+X redundancy. With its industry leading 94% high efficiency, the NH Plus series delivers remarkably low total cost of ownership in terms of both capital expense and operating expense.

With N+X module and system redundancy to guarantee reliability and availability, the Modulon NH Plus series sets a new milestone for UPS protection in mission critical applications.

Features:

- Available from 20 to 480 kVA (4 units x 120 kVA in parallel).
- Redundancy at module and system level.
- Hot-swappable function ensures uninterrupted operations during maintenance.
- Redundant auxiliary power and control circuit ensures higher reliability.
- Inbuilt maintenance and static bypass switch.
- Modular design provides easy maintenance and scalability.
- Multi-language LCD display and LED status indicators.
- Two smart slots and six programmable dry contact outputs.
- Optional external battery cabinet for longer backup time.
- Low harmonic distortion (iTHD<3%) optimized generator size to save initial investment.
- High input and output power factor (I/P pf >0.99; O/P pf up to 0.9) and 94% high efficiency reduce operating costs.



DPH Series, Three Phase 25-75 / 150 / 200 kVA

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The Modulon DPH supports ultimate availability for datacenter operations and provides the benefit of “pay as you go” without over-sizing the UPS. While achieving ultimate availability, the Modulon DPH does not compromise on power efficiency performance. When availability, efficiency and expanding according to business needs are essential, the Modulon DPH is the ideal UPS system to provide power protection and total cost of ownership (TCO) savings.

Features:

- Advanced fault tolerance design achieved by self-redundancy to guarantee operation continuity
- Self-synchronization of power and control modules for continuous on-line operation even in the event of control module failure to avoid downtime caused by single point failure
- Hot-swappable key modules and components to ensure Mean Time To Repair (MTTR) close to zero without downtime risk
- Vertical expansion from 25kW to 75/150/200kW supporting N+X redundancy in a single rack enclosure to save footprint
- Parallel expansion up to four units without requiring additional hardware
- Optional Rack-Mount PDC (applicable for 75/150kW models) has flexibility to arrange its UPS's output power feeding according to its connected critical loads.
- Optional built-in battery modules (applicable for 75kW models) at maximum four units (four battery trays each)
- Full rated power (kVA=kW) to maximize power availability
- High operating efficiency of 95% at 30% light load and 96% from 50% load resulting in marked energy cost savings
- Low harmonic pollution (iTHD<3%) to reduce upstream investment costs and meet demanding power requirements
- Built-in manual bypass features to eliminate maintenance-related downtime
- Proactive detection of fan failure and switch fault for early diagnosis on UPS malfunction
- Plug and play modularity to simplify the maintenance process





The power behind competitiveness

Delta UPS Solutions

