

Solar add-on kits

For Delta 48V indoor and outdoor power systems

Description

Delta Solar add-on kits are ideal solution for enhancing existing on-grid and off-grid powered system installations. The usage of free renewable solar energy provides a strategic way to reduce total contractual energy bill/consumption and CO₂ emissions of your telecommunication sites, enabling significant large scale savings on energy costs and reducing the carbon footprint of your network during its operational lifetime.

With Delta state of the art ORION power system controller the overall performance of the Solar add-on enhanced system can be further optimized for energy savings (kWh) and CO₂ emissions per consumed kWh.

Delta Solar add-on kit product family consists of modular 19IN/21IN building blocks, which are easily adaptable to various 48V power system installations, allowing scalability to meet growing load and energy savings requirements. The kits can be paralleled for flexible configuration. Add-on kits include all the cabling and optionally wall mounting mechanics.

Main features

Significant OPEX reduction/savings

High efficiency >96 % by using the Delta PVC 2200B-48 solar converters

- Reduced energy consumption costs in on-grid or diesel powered bad-/off-grid applications
- Reduced CO₂ emissions

Very low maintenance requirements by using Delta advanced ORION power system controller technology for optimized system operation

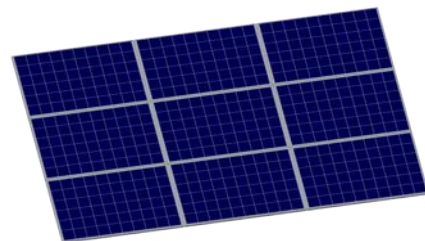
Support up to 6 solar panel arrays with 8...9 solar panels connected in series

Easy installation, commission and maintenance

Applications

Telecom - Mobile / Wireless

- Radio base stations/ cell sites
- LTE / 4G / WiMAX
- Microwave
- Broadband



Telecom - Fixed

- Central office
- Telephony servers / switches
- Fiber optics / FTTx
- Microwave
- Cable
- Broadband
- Data center



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Technical specifications



	PVS 2200B-48-1	PVS 2200B-48-3	PVS 2200B-48-6
Solar modules	1 x PVC 2200B-48	3 x PVC 2200B-48	6 x PVC 2200B-48
Efficiency	96 %	96 %	96 %
MTTP efficiency	> 99.5 %	> 99.5 %	> 99.5 %
Peak power	2.2 kW	6.6 kW	13.2 kW
Current limitation	46 A	138 A	276 A
Voltage range	42 - 58 V	42 - 58 V	42 - 58 V
Height	43.5 mm (1U)	178 mm (4U)	221 mm (5U) (+ 88 mm for cabling)
Width (body)	439 mm (19")	448 mm (19")	448 mm (19")
Depth (body)	372 mm	298 mm	298 mm
Weight (without chargers)	4 kg	10 kg	12 kg

Solar input	
Voltage range	50 - 350 V (startup ≥ 80 V)
Voltage range, full power	250 - 350 V
Current	10 A per solar string
Connection	Screw terminals for cables
Input protection	Two pole MCB 10 A
Over voltage protection	SPD 2+0 type 2

Safety standard	IEC 60950
EMC standard	EN 300 386

Additional options	
Solar panel cable kits	5, 10, 15, 20, 25, 30 and 35 m
DC cables to system	1, 3 and 6 m
Wall mounting hardware	5U and 8U high wall boxes
PSC3 controller upgrade	ORIONc

Control / Monitoring	
Interface to ORION controller	RJ12 terminal, RECT bus

Others	
Operating temperature	-40 - +65 °C
Humidity (relative)	95 % max, non cond.
Environment standard	ETSI EN 300 019-1-3

Ordering	
Product configurator	3799761500
Fixed product configurations	Part numbers created by request
PV charger PVC 2200B-48	DCS-48/45A A-A
ORIONc	TPS1020026A-PML-M

Delta Energy Systems (Finland) Oy

Juvan teollisuuskatu 15, FIN-02921 Espoo

Phone: +358 9 849 660, Fax: +358 9 8496 6100

www.deltapowersolutions.com

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