

# Solar add-on kit

For Delta 48V indoor and outdoor power systems



## Description

Delta Solar add-on kit is 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 CO<sub>2</sub> 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 CO<sub>2</sub> emissions per consumed kWh.

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

## Main features

- Significant OPEX reduction/savings
- High efficiency 96.7 % with PVC 3000B-48 converters
  - Reduced energy consumption and CO<sub>2</sub> emissions
- Very low maintenance requirements by using Delta advanced ORION controller technology for optimized system operation
- Support several panel arrays with 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 3000B-48-2

Power Module	
Solar modules	2 x PVC 3000B-48
Efficiency	96.7 %
MTTP efficiency	> 99.5 %
Peak power	6.0 kW

Input Data	
Input voltage range (operation)	50 – 440 V
Input voltage range (full power)	165 – 440 V
Max input current	20 A
Connection	Screw terminal for cables
Over voltage protection	SPD 2+0 type 2

Output Data	
Output current	110 A
Output voltage range	42 - 58 V

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 wall boxes

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

Other Specifications	
Operating temperature	-40 - +55 °C
Humidity (relative)	95 % max, non cond.
Height	43.8 mm (1U)
Width	484 mm (19")
Depth	325 mm
Weight (without chargers)	5 kg

Design Standards	
Environment standard	ETSI EN 300 019-1-3
Safety standard	EN 62368-1
EMC standard	EN 300 386

Ordering	
Product configurator	3799761500
Fixed product configurations	Part numbers created by request
PV charger PVC 3000B-48	DCS-48/60A A
ORIONc touch	TPS1020029A-PML-M