Solar Sub-rack Power System

## 

#### **Key Features**

- Seamless integration with the legacy DC power system
- Compact, modular, hot pluggable solar subrack
- Interruption free installation
- Equipped with an MPPT charger providing a maximum power track precision of up to 99.5%
- Delivers an ultra-high efficiency of up to 98%
- Supports soft scalable technology
- Integrated protection from external lightning surges
- Full front access for easy operation & maintenance
- Safety: CE certified and complies with EN60950 and EN62109 standards
- Flexible to pair with NetSure<sup>™</sup> 531/731 series to form a hybrid system

### Applications

- LTE in-building solutions
- FTTx broadband multi-solutions
- Macro station and outdoor cabinet

#### Description

The HSS48 series solar sub-rack provides an easy, interruption-free and economical solution to upgrade a legacy DC power system. This ultracompact, modular sub-rack brings an alternate solar energy source for access and transmission networks. Its fast and precise MPPT (Maximum Power Point Tracking) algorithm provides real-time power tracking and improves power harvesting. By leveraging the solar power at telecom sites, operators can substantially reduce their operational expenses.

#### **Typical System Architecture**





## **HSS 48 Series**

#### HSS series MPPT 50A, 100A Solar Subrack

	Parameters	
Model Name	HSS4850/XMX-1	HSS48100/XMX-1
Rated power	3000W	6000W
MPPT converter	S48-3000	
Solar input	58 to 150 VDC	
DC Output Voltage	-42 to 58VDC	
Efficiency	≥98.2%	
Subrack configuration	1 x MPPT module + SPD + Input & output distribution	2 x MPPT module + SPD + Input & output distribution
Interface from solar array	2 x 16 mm²,rear connected	4 x 16 mm², rear connected
Interface to -48VDC power system	2 x 16 mm², rear connected	4 x 16 mm²,rear connected
Dimensions (WxHxD)	440 x 355 x 44mm	
Weight	≤13kg	≤16kg
Communication alarm interface	RS232 communication, input & output dry contact	Output dry contact
HSS series MPPT 60A Solar	Subrack	
	Parameters	
Model Name	HSS4860/XSX-1	
Rated power	4000W	
MPPT converter	S48-2000e3	
Solar input	200 to 300VDC	
DC Output Voltage	-42 to 58VDC	
Efficiency	≥96%	
Subrack configuration	2 x MPPT module + SPD + Output distribution	
Interface from solar array	2 x M5 Screws, rear connected	
Interface to -48VDC power system	2 x M8 Screws, rear connected	
Dimensions (WxHxD)	440 x 355 x 44mm	
Weight	≤10kg	
Communication alarm interface	Output dry contact	
Solar MPPT Converter		

# HSS4850





HSS4860



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Weight

Model Name Rated power

Input voltage range

Output voltage range MPPT Precision

Conversion efficiency

Dimensions (WxDxH)

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Parameters

S48-3000

3000W

58 to 150VDC

-42 to 58 VDC

≥99.5%

≥98.2%

41.4 X 132.3 X 287mm

≤3kg



S48-2000e3

2000W

120 to 420 VDC\*

-42 to 58 VDC

≥99%

≥96%

84.5 X 41.4 X 252.5mm

≤2kg

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