

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[™] 531/731 series to form a hybrid system

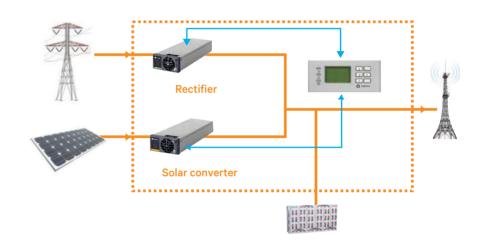
Applications

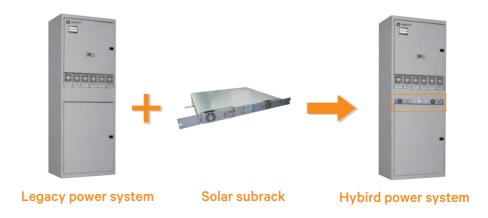
- LTE in-building solutions
- FTTx broadband multi-solutions
- Macro station and outdoor cabinet

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 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 | | |
|-----------------------------------|---|--|
| 300 | 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 | |



| | Param | Parameters | |
|-----------------------|-----------------------|----------------------|--|
| Model Name | S48-2000e3 | S48-3000 | |
| Rated power | 2000W | 3000W | |
| Input voltage range | 120 to 420 VDC* | 58 to 150VDC | |
| Output voltage range | -42 to 58 VDC | -42 to 58 VDC | |
| MPPT Precision | ≥99% | ≥99.5% | |
| Conversion efficiency | ≥96% | ≥98.2% | |
| Dimensions (WxDxH) | 84.5 X 41.4 X 252.5mm | 41.4 X 132.3 X 287mm | |
| Weight | ≤2kg | ≤3kg | |





S48-2000e3

S48-3000

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