

# 48V/48kW DC SMPS Power Plant

## Indoor Sub-Rack



Exicom's 48kW with 12kW solar core unit is designed as an indoor, 19" rack-mountable subsystem. With high efficiency, leading power density, and real-time monitoring and battery management through the M2000 controller, it is an ideal solution for various telecom applications. It also offers an optional pre-integrated AC and DC distribution unit, customizable to meet user-specific requirements.

# Key Specification



System Contain - M2000 Controller + Rectifier + Battery Distribution + Load Distribution



Comprehensive battery management & built in support for Li-ion battery charge profiles



ECO Mode function for rectifier enabling significant energy savings even at low loads.



Wide operating voltage range 170Vac-280Vac (L-L).



Max Output Power: 48KW



Advanced Control and Remote Access Monitoring through Ethernet port.



Swappable Rectifiers & Controller



Global Compliance



IP20 protection rating.



High Efficiency up to 97%.



UL Certified Power Module and Controller.



Flexible & Modular Design.



Wide temperature range (-25°C to 75°C) for capex and opex savings



Advanced AC and DC energy metering options.



Easy integration in indoor or outdoor cabinets



Remote Access – Monitoring through the web browser, TCP/IP, & SNMP as a standard feature and optional modem.



High-efficiency rectifiers & solar chargers for energy savings and optimized cost of ownership.



Supports high DC voltage architecture to optimize installation costs. 99%+ MPPT efficiency ensures maximum use of available solar power.



Ideal for shared sites with multiple power inputs such as Grid, Solar, DG genset, and battery

# Application

- Telecom: Cellular base station sites, LTE/WiMax, hub sites and central offices
- Smart Cities: Smart poles, surveillance, etc.
- Power Utilities: Control and protection and communication equipment.
- Railways: Signalling, communication equipment, and control & protection.

# System Technical Specification

## Input

Voltage	150Vac–300Vac (L-L), Nominal Voltage: 230Vac
Input Frequency	44Hz to 66Hz
Mains Configuration	Three Phase: 3L+PE
Surge Protection	Type-2(Class-C) for AC & Type-3(Class-D) for DC
Input Distribution	MCCB 200A/3P/ Terminal Blocks for N
Applicable rectifier	Quantum 48V/4000W
DC Voltage for MPPT	120Vdc-400Vdc
Applicable MPPT	Quantum 48V/3000W

## DC Output

Voltage	54Vdc; Adj: 42-58Vdc
Output Power	48000W SMR + 12000W Solar
Static Voltage regulation	+/-0.5% for 10-90% load
Low Voltage Disconnect	Battery and load LVD
Battery path	Circuit breaker/ Fuses
Digital Input & Outputs	8 Opto isolated digital inputs, 8 NO/NC relay outputs
Control and monitoring	M2000
Operating Temperature	-25C to +75C
Operating RH	5% to 95% non-condensing
Acoustic Noise	Less than 55dB (A)
Applicable standards	EN60950-1, EN 55022 (Class B), EN 55024, EN 300019-1-1/2/3, ROHS complied

## Mechanical Data

System Size (HxWxD)	700mm (H) x 482mm (W) x 451mm (D)
Mounting Type	19-inch rack mount
IP Rating	IP-20
Cable Entry	Top

### Mobility Solutions



### DC Telecom Solutions



### ESS Solutions



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