

# 48V/10KwP Hybrid DC SMPS Power Plant

## Outdoor

Front View



Isometric View



Exicom's hybrid solutions provide power to the telecom site with a combination of AC Grid, SPV and integrates traditional grid electricity with Solar Photovoltaic (SPV) technology to create a reliable and sustainable energy solution. This system utilizes the strengths of both sources: the grid provides consistent power supply, while SPV harnesses solar energy, reducing reliance on fossil fuels and lowering energy costs. The system includes high efficiency rectifiers, load & battery LVD's, AC connections, flexible DC distributions, multiple battery connection and Exicom's advanced M2000 system controller to support complex energy management control at a cellular base station site.

## Key Specification



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



Wide operating input voltage and  
temperature range from -40 °C to +75  
°C, enabling opex savings



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



Low Voltage Battery  
Disconnect and optional low  
voltage load disconnect



Advanced Control and  
Monitoring through  
Ethernet port



Max Output Power:  
21KW @ Grid and  
12KW @ SPV



Global  
Compliance



Swappable Rectifiers &  
Controller

## 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

# Technical Specification

## AC Input

Voltage	90 - 300Vac, 230V Nominal
Mains Configuration	Single phase: L + N + PE
Surge Protection	Type-2 (Class-C)
Input Distribution	MCB / Terminal Block
Applicable rectifier	Quantum-3, 48V/3000W

## SPV Input

Voltage	140V-400V
Array Configuration	3-SPV Array, Panel connected in series.
Surge Protection	Yes, SPV Surge Protection
Input Distribution	MCB 2P/32A @ Individual Solar Charger
Applicable Solar Charger	Photon-4, 48V/4000W

## DC Output

Voltage	54V; Adj: 42V - 58V
Output Power	21000W
Static Voltage regulation	+/-0.5% for 10%-90% load
Low Voltage Disconnect	Battery LVD, Optional Load LVD
Battery path	Fuse / Circuit Breaker
Digital Input & Outputs	8 Opto isolated digital inputs, 8 NO/NC relay outputs
Control & Monitoring	M2000
Applicable standards	EN 60950-1, EN 55022 (Class B), EN 55024, EN 300019-1-1/2/3, ROHS complied

## Mechanical Data

System Size (HxWxD)	H:750mm, W:600mm, D:700mm
Mounting Type	Base / Floor Mount
Fan Cooled	Fan Cooled
Service Access	Front and Rear Access
Rack Lifting	Eye Blot for lifting
IP Rating	IP-55
Cable Entry	Bottom

### Mobility Solutions



### DC Telecom Solutions



### ESS Solutions



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