

48V/36kW Hybrid Telecom Power System

Outdoor



Exicom Hybrid system consists of Hybrid Power Plant outdoor unit & 27U space for Li-ion Battery Bank with ingress protection of IP54. Hybrid Power Plant Outdoor Unit – 36kW SMPS with provision of 18kW Solar Charger Capacity which can be retrofit at site when required. This system is an all-in-one power solution for Mobile Telecom Operators. It houses all the required power and control equipment in one OD Rack. The basic building block uses a 4kW SMR & 3kW Solar Charger. These rectifier modules have been designed to work in any electrical and climatic environment and provide full power over applicable voltage and temperature range without any degradation in performance.

Key Specification



System Contain – M2000 Controller + Rectifier + Solar MPPT+ Battery Distribution + Load Distribution



Advanced Control and Remote Access Monitoring through Ethernet port.



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



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



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



Swappable Rectifiers & Controller



Rectifier High Efficiency up to 97%



UL Certified Power Module and Controller.



IP54 Outdoor Power Solution.



Wide operating voltage range 90 – 300Vac (L-N).



Max Output Power: 36KW



Advanced AC and DC energy metering options.



Flexible and modular design.



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



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.

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

AC Input

AC Voltage	90Vac–300Vac, Nominal Voltage: 230Vac
Input Frequency	44Hz to 66Hz
Mains Configuration	Three Phase: 3L+N+PE
Surge Protection	Type-2(Class-C) for AC & Type-3(Class-D) for DC
Input Distribution	Switch Disconnecter 100A/4P
Applicable rectifier	Quantum-4 48V/4000W
DC Voltage for Solar MPPT	120Vdc-400Vdc
Applicable Solar MPPT	Quantum 48V/3000W

DC Output

Voltage Output	54Vdc; Adj: 42-58Vdc
Power	36000W SMR + 18000W solar retrofit
Static Voltage regulation	+/-0.5% for 10-90% load
Low Voltage Disconnect	Battery and load LVD
Battery path	Circuit Breaker
Digital Input & Outputs	16 Opto isolated digital inputs, 16 NO/NC relay outputs
Control & 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)	2200mm (H) x 900mm (W) x 1050mm (D)
Mounting Type	Floor
IP Rating	IP-54
Cable Entry	Bottom

Mobility Solutions



DC Telecom Solutions



ESS Solutions



INDIA

Plot No 38, Institutional Area,
Sector 32, Gurugram, Haryana
122001, India
cpsales.india@exicom.in

AFRICA

Business Center 1, M Floor, The
Meydan Hotel, Nad Al Sheba,
Dubai, U.A.E.
cpsales.africa@exicom.in

MIDDLE EAST

Business Center 1, M Floor, The
Meydan Hotel, Nad Al Sheba,
Dubai, U.A.E.
cpsales.mea@exicom.in

SOUTH EAST ASIA COUNTRY

No 23, Jalan Linggis 15/24, Taman
Perindustrian Linggis, Seksyen 15,
40200 Shah Alam Selangor, Malaysia
cpsales.sea@exicom.in

SAUDI ARABIA

14181, 8667 King Fahad Road
Olaya, Riyadh 12611 , Saudi
Arabia cpsales.sa@exicom.in

Disclaimer:

This document may contain forecast information, including but not limited to future finances, operations, product series, new technologies, etc. Due to practice the uncertainty in the actual results may differ from the predicted information. Therefore, the information in this document is for reference only and does not constitute any offer or promise. Exicom may modify the above information without notice.