

16kW Hybrid Power System

Flexible & powerful solution for DC telecom



Comprising of our high efficiency rectifiers, solar chargers - Exicom's Hybrid 16kW system is a modular and flexible system designed to provide power in remote, poor grid and off grid locations. The system controller intelligently uses combination of solar power, grid power, batteries and DG genset to achieve minimal energy cost. Depending on the equipment configuration and site power requirements, the operational expenses is reduced by 70 – 80% primarily due to the reduction of diesel consumption by generators and a reduced service cost.

Key Features:

- Power anywhere: Power an off-grid telecom site or create micro grids that are efficient and scalable
- Modularity & reliability: Even in case of failures, our modular architecture allows the system to be operational and module can be replaced in seconds
- Efficiency: Achieve lowest operational costs with Exicom solar charger with MPPT efficiency of +99% & converter efficiency of up to 95.0%
- Lower cost: Achieve 70% reduction in expenses on account of lower running of DG genset and related maintenance expenses

Applications:

- Telecom sites: Off-grid, poor grid, conversion to renewable energy
- Micro-grids: villages, communities, rural electrification
- Autonomous broadband, 4G LTE, Wi-Max sites

16kW Telecom Hybrid Power System - Technical Specifications

AC Input	AC input voltage	Three phase: 3L+N+PE; 90-300Vac (L-N), 220Vac (nominal)
	Input frequency	45 to 66Hz
	Input termination	MCB 3P (R,Y,B) + TB's for neutral & earth
	Surge protection	Type 2 (class C)
DC Input	DC input voltage	120-400Vdc
	Input termination	UIK terminal blocks (4 arrays max.)
DC Output	Maximum power	16kW (2kWx4) Rectifier + (2kWx4) Solar Charger
	Output voltage	42 to 58Vdc (54Vdc Nominal)
	Output current	333A @ 48V
Battery & load Distribution	Load LVD	200A default
	Battery LVD, Termination	200A default, 125A x 2 breaker / 125A x 2 fuse
	DIN mounted breakers	Configurable upto 8 battery (max 2), priority & non-priority load breakers (18mm size)
	Common positive termination	Copper bus bar (front or top access)
	Metering	DC load / EB / DG kWh metering
Other Specifications	Controller options	M1000 / M2000 controller platform
	Local operation	Self-explanatory menu guided operation via joystick & TFT
	Remote operation	Ethernet for remote/local monitoring and control via WEB browser
	PFC inputs / digital inputs	8 opto isolated digital inputs
	PFC outputs / digital outputs	8 NO/NC relay outputs
	Battery compatibility	VRLA/Li-Ion
	Operating temperature	-40°C to +45°C (nominal)
		45°C to +75°C (derated performance)
	Storage temperature	-40°C to +85°C
	Mounting	19" rack mount sub rack
	Dimensions (w x h x d)	Core unit: 482 x 177 x 426 mm
Distribution unit: 482 x 266 x 260 mm		
Degree of protection	IP 20	
Applicable standards	EN 60950-1, EN 55022 (Class B), EN 55024, EN 300019-1-1/2/3, ROHS complied	
Ordering Info	Core Unit Part No.: HE517850; Distribution Unit Part No.: On request Rectifier 2kW: HE513140 (max. 4 per system) Solar Photon-II 2kW: HE513180 (max. 4 per system)	

Specifications are subject to change without notice

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