

EnerSmart

5G Micro Base Station Power Supply



PRODUCT DESCRIPTION

The EnerSmart 5G Micro Base Station Power Supply is developed for the 5G telecom market. It consists of the power supply module (rectifier, monitoring unit, communication unit, and power distribution unit) and lithium battery module. The product features modular and digitalized design and high energy density. With support for multiple installation methods including wall-mounting, pole-mounting, and angle-steel-tower-mounting, this product can be installed (horizontally or vertically) on the outdoor towers, lamp poles, indoor weak electricity well, micro base stations and other different harsh application scenarios.



APPLICATION SCENARIOS

- 5G telecom micro base station
- Outdoor tower and lamp pole
- Indoor weak electrical well
- Remote power supply for RRU
- Enterprise telecom station



PRODUCT FEATURES

- Compact size and light weight design for easy installation and rapid deployment
- Support for APP local monitoring
- High protection level: IP65
- Multiple communication interfaces: RS485, CAN, NB-IOT/4G, Bluetooth, and dry contact
- Diversified installation methods to adapt to complex installation scenarios
- Natural heat dissipation and fanless design



Model		TP48V2K	TP48V3K
System	Dimensions [W*D*H, mm]	300*93*420	
	Weight [kg]	≤ 9	
	Installation	Wall-mounting, pole-mounting, and angle-steel-tower-mounting	
	IP Grade	IP65	
	Efficiency	> 95%	
	Working Temperature [°C]	-40 to +55 (without direct sunlight)	
	Heat Dissipation	Natural dissipation	
Environment	Storage/Transportation Temperature [°C]	-40 to +70	
	Ambient Temperature [°C]	5% to 95% RH (non-condensing)	
	Altitude [m]	2000-4000 (-1°C/200m)	
AC Input	Input Voltage [V]	220 (single-phase)	
	Input Voltage Range [V]	170-280	
	Input PF	≥ 0.99	
	Input Frequency [Hz]	45-55	
	Input Current [A]	1 × 15	1 × 25
	AC Shock-Proof	20 kA/20 kA, 8/20 μs	
DC Output	Output Power [W]	2000	3000
	Output Voltage [V]	-56.4	
	DC (Load) Output Current [A]	3 × 40	
	DC Shock-Proof	10 kA/20 kA, 8/20 μs	
	Battery By-Pass Current [A]	2 × 80	
Communication	Local Monitoring	Bluetooth and mobile APP	
	Number of Dry Contact	3	
	Communication	RS485/CAN	
	Wireless Connection	4G/NB-IOT	
Model		TP48V20-16S	TP48V50-16S
System	Cell Type	LFP	
	Installation	Wall-mounting, pole-mounting and angle-steel-tower-mounting	
	IP Grade	IP65	
	Dimensions [W*D*H, mm]	300*115*420	300*190*420
	Weight [Kg]	≤ 20	≤ 35
	Working Temperature [°C]	-40 to +55 (without direct sunlight)	
	Heat Dissipation	Natural cooling	
Electrical Parameters	Rated Voltage [V]	51.2	
	Rated Capacity [Ah]	20	50
	Voltage Range [V]	43.2-57.6	
	Maximum Charging Current [A]	10 (current limitation:4)	25 (current limitation:10)
	Maximum Discharge Current [A]	20	50
	Parallel Connection	Support (up to 4)	
	Communication	RS485*2	
	Protection	Over voltage, under voltage, short circuit, overload, over current, over temperature, low temperature protection, etc.	

Note: The above information may subject to update without prior notice.