

Energy Storage Power Supply

TESS-10-20/20-40/30-60



Product overview

The Energy Storage Power Supply is a series of products developed for small-scale industrial and commercial clients and those with smaller power loads. Depending on customer power needs, we offer options of 10kW/20kWh, 20kW/40kWh, or 30kW/60kWh energy storage power supplies. The power supply can be expanded in parallel to accommodate the customer's load size, without needing to replace the storage power supply. The power supply supports both on-grid and off-grid operation, fulfilling a variety of application scenarios such as dynamic expansion of substation power supply, peak shaving and valley filling, and off-grid power supply.



Integrated, high protection grade structure design



Emergency-energy provision seamless switch, switch duration<10ms



A variety of automatic control strategies



Support off-grid power supply and device multiple parallel-connecting functions



Intelligent temperature control system design



Professional cloud platform monitoring and multi-dimensional after-sales service system



Model	TESS-10-20	TESS-20-40	TESS-30-60
AC grid-connected parameter			
Rated Power	10KW	20KW	30KW
Input Type	TN-S		
Voltage range	380Vac ± 15%		
Current range	15A	30A	45A
Frequency range	50/60Hz ± 5Hz		
PF	0.99		
THDi	≤5%		
AC off-grid parameter			
Voltage range	380Vac ± 15%		
Voltage Accuracy	≤1%		
Output Frequency	50/60Hz ± 5Hz		
THDu	≤3%		
Battery end parameters			
Battery capacity	23.04kWh	40.32kWh	63.36kWh
Battery Type	Lithium iron phosphate	Lithium iron phosphate	Lithium iron phosphate
Rated Voltage	153.6V	268.8V	422.4V
Voltage range	134.4V~ 172.8V	235.2V~302.4V	369.6V~ 475.2V
Basic Features			
Cooling method	Air-cooling + intelligent air conditioner		
Fire Fighting	Equipped		
Intelligent monitor platform	Equipped		
Duration for switching between grid-connected and off-grid	≤10ms		
Peak efficiency	91.0%		
Protection Features	Protection for over /under voltage, over current, over/under temperature, islanding, SOC too high/low, low insulation impedance, short circuit, etc.		
Operating Temperature	-20°C ~+45°C		
Relative humidity	≤95%RH, non-condensing		
Altitude	4000m (over 2000 m, it will operate in derating)		
Protection Grade	IP54		
Noise	<65dB		
Communication mode	Ethernet, RS485, 4G		
Outline Dimensions	800mm×1000mm×1600mm	1200mm×1000mm×1800mm	1200mm×1000mm×2200mm
Weight	Approx.700Kg	Approx.1000Kg	Approx.1500Kg