TECLOMAN

Mobile Emergency Power Supply Vehicle

TCSS-100-100/250-500/500-1000



Product Overview

Our mobile emergency power supply vehicle is a dynamic storage solution. By utilizing a truck chassis as a platform, we employ lithium iron phosphate batteries as storage units, further enhanced with a safe and reliable bms bess inverter and energy management system.

- With STS rapid switching, the switching time is less than 10ms, ensuring power supply reliability.
- Intelligent temperature control extends battery life
- Module-level active fire suppression system using hexafluoropropane, providing safe and reliable operation
- It supports multiple application scenarios such as emergency power protection, dynamic capacity increase, and off-grid p ower supp ly
- Zero emission of BESS; chassis emission meets the National VI standard
- Guarantee uninterrupted protection through always-on firefighting and monitoring



4

Model	TCSS-100-100	TCSS-250-500	TCSS-500-1000
DC side			
Capacity of single battery	75Ah	280Ah	280Ah
Number of cycles	6000	6000	6000
Battery Voltage range	604.8V-756Vdc	556V-672Vdc	556V-672Vdc
Maximum input	154A	420A	840A
Battery capacity	103.6kWh	510kWh	1032kWh
Output side			
Rated output power	100kW	250kW	500kW
Maximum output power	110kW	275kW	550kW
Output Type	Three-phase four-wire + ground (3 W + N + PE)	Three-phase four-wire + ground (3 W + N + PE)	Three-phase four-wire + ground (3 W + N + PE)
Rated Voltage	400Vac	400Vac	400Vac
Rated Output current	144A	361A	722A
Maximum output current	159A	397A	794A
Isolation method	Transformers	Transformers	Transformers
Grid-connected operation	Transfermere	Transformers	a.isisimeis
Allowable range of		400Vac (-20%~+15%)	
Grid frequency allowed		50±5HZ/60±5HZ	
THDI		\$3%	
Power factor			
		-0.99 (lag)~ 0.99 (advance)	
Off-grid operation		4007	
Rated Voltage		400V	
Voltage range		400VAC ± 10%	
Rated Output Frequency		50Hz/60Hz	
With unbalanced load		≤100%	
THDU		≤3% (pure resistive load)	
Overload capability		110% overload (10min)120% overload (1min)	
Other parameters			
Designed service life		10 years or 3000 cycles (80%)	
Cooling method		Air-cooling + intelligent air conditioner	
Relative humidity		≤90%RH, non-condensing	
Protection Grade		IP54	
Gird-connection and off automa	tic switch function	Equipped	
Duration for switching of off-grid		≤10ms	
Communication Interface		RS485/4G/Ethernet	
Cloud platform terminal		Support	
Vehicle Parameters			
Carriage dimension	Approx. 3500 * 2200 * 1950 mm	Approx. 6800*2500*2640 mm	Approx. 9400*2500*2585 mm
Overall vehicle dimesion	Approx.5995*2200*3100 mm	Approx.9100*2500*3910 mm	Approx.12000*2520*3830 mm
Chassis manufacturer (can be specif		Dongfeng of National Emission Standard VI	Dongfeng of National Emission Standard VI
Overall vehicle weight	6500kg	21870kg	31000kg
Maximum number of occupants	3 persons	3 persons	2 persons
Top speed	110km/h	89 km/h	89 km/h
Hydraulic support systeM		Equipped	q
Sound and heat insulation lay		Equipped	
Cable and cable winding machin	ie Ruilt wit	h adjustable motor, able to accommodate 50m	cable
GPS	- Dailt Wit	Equipped	- capite
Fire fighting system		Standard configuration	
Ventilation and heat dissipation	<u> </u>		
· · · · · · · · · · · · · · · · · · ·	эуэсси	Standard configuration	
Light system		Standard configuration	
Body appearance and color		Engineering Yellow (customeriztion availavle)	
Environment Parameters			
Operation ambient temperature		-15°C ~ 50°C	
Limit Operating Temperature		-20°C~55°C	
Optimal Operating Temperature		20°C~30°C	