TECLOMAN

Voltage Regulation Device with Energy Storage System

TESS-3-3.6/3-7.2/5-11.52



Product overview

The BESS type terminal voltage regulation device is a product that solves the problem of low voltage at the end of weak grid structures. Compared to traditional solutions, it has flexible operation capabilities, can reduce line power loss and voltage drop through local active support, and can meet various application scenarios. It has features such as small size, high efficiency, and reliability.

- Integrated, designed with high protection grade structure
- Reducing the power grid distribution capacity, line transformation
- solve problems such as equipment idle due to renovation, and low utilization rate
- Supporting Cloud platform monitor on data

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- Modular design, easy to repair and maintenance
- Real-time monitoring, dynamic compensation
- Shortening the renovation period and improving its economic efficiency
- Accurate and point-fixing compensation and quick solution to low voltage problems



Model	TESS-3-3.6	TESS-3-7.2	TESS-5-11.52
Battery end			
Battery Type		Lithium iron phosphate	
Rated battery voltage		48V	
Maximum charging and discharging current	65A	65A	100A
Battery capacity	3.6kWh	7.2kWh	11.52kWh
Grid End			
AC output power	3kW	3kW	5kW
AC output current	13.6A	13.6A	22.7A
Output format		L/N + PE	
AC output voltage		220Vac	
AC voltage range		176-264Vac	
AC output frequency		45~55Hz/55~65Hz	
Power factor		0.99 (advance)~ 0.99 (lag)	
THDI		€5%	
Maximum efficiency		≥92%	
Others			
Duration for switching between forward and reverse ≤100ms			
Islanding Protection		Equipped	
Cooling method		Forced air cooling	
Protection Grade		IP44	
Over-current/over-voltage protect	on	Equipped	
Remote online upgrade		Equipped	
Surge protection		Equipped	
Cloud Platform		Support	
Ambient temperature		-5°C~+55°C	
Operating Altitude	≤3000m (over 3000 m, please derate; at 3000 m ~ 5000 m, conduct linear derating to 30%)		
Relative humidity	≤95%RH, non-condensing		
Noise		<65dB	
Installation method	Pole mount/floor mount/frame rod mount		
Communication Interface		RS485/CAN	
Dimensions (W X H X D)	693×752×356mm	693×991×356mm	650x1150x800mm
Overall Weight	Approx.87kg	Approx.115kg	Approx.150kg