TECLOMAN

250kW PCS

TPCS-250T



Product Overview

The 250kW PCS is a powerful AC/DC bidirectional conversion device designed for BESS.

- Built-in isolation transformer, directly with three-phase 100% unbalanced load
- Supporting multiple machine parallel connection, meeting the requirements of different power levels
- (5) -25°C to 55°C
- harsh conditions such as high humidity and salt spray

- Frequency support; Voltage support Inertia support
- Flexible configuration with different capacity requirements
- Multiple control modes, free choice
- $\downarrow \uparrow \downarrow$ Integrated EMS, intelligent management



Model	TPCS-250T
DC parameters	
Maximum operating voltage	1000V
Minimum operating voltage	520V
Full-load voltage range	550V~850V
Maximum input current	513A
Grid-connected AC parameter	
Rated output power	250kW
Maximum output power	275kW
AC rated voltage	400V
AC rated frequency	50Hz/60Hz
Maximum output current	360A
Maximum overload capacity	396A
Maximum overload capacity	110% overload (long-term), 120% overload (lmin)
AC voltage range	85%U _n -110%U _n
AC frequency range	45-55Hz/55-65Hz (settable)
Maxmuim Current Total Harmonic Distortion	<3%
DC component of current	<0.5% of rated output current
Power factor	-0.99 (advance)~ 0.99 (lag)
Reactive power controllable range	-100%-100%
Isolation method	Industrial frequency transformer
AC system	3W+N+PE
Off-grid AC parameter	
AC rated voltage	400V
AC rated frequency	50Hz/60Hz
Maxmuim Voltage Total Harmonic Distortion	<3% (linear load)
DC component of voltage	V0.5%U _n (linear balanced load)
Load capacity of unbalance load	100%
Voltage variation range	<3%U _n
Gird-connection and off switch mode	
Gird-connection and off switch capacity	Planned off-grid
Passive off-grid switching mode and switching time	<10 ms with switching cabinet
Efficiency	
Maximum efficiency	97.4%
Basic parameters	
Dimensions (W X H X D)	1216mm X 850mm X 2054mm
Weight	1650kg
Permissible operating temperature range	-25°C~55°C (over 45°C, it will operate in derating)
Cooling method	Forced air cooling
Protection Grade	IP20
Relative humidity	≤95%RH, non-condensing
Highest Altitude	4000 m (over 2000 m, it will operate in derating)
Self power consumption in shutdown	<50W
HMI	Touch Screen
Communication Interface	RS485, Ethernet, CAN
Support protocols	Modbus TCP, Modbus RTU