TECLOMAN

100kW Modular PCS

TPCS-100M



Product overview

The 100kW Modular PCS is a powerful AC/DC bidirectional conversion device designed for BESS.

- Three-phase four-wire system, directly with three-phase 100% unbalanced load
- Supporting multiple machine parallel connection, meeting the requirements of different power levels
- (¹) -25°C to 55°C
- harsh conditions such as high humidity and salt spray

- Modular design, easy to install and maintain
- Flexible configuration for different capacity requirements
- Multiple control modes, free choice
- $\left| \begin{array}{c} \downarrow \uparrow \downarrow \end{array} \right|$ Integrated EMS, intelligent management



Model	TPCS-100M
DC parameter	
Maximum operating voltage	800V
Minimum operating voltage	650V
Full load voltage range	650V~800V
Maximum input current	154A
Grid-connected AC parameter	
Rated output power	100kW
Maximum output power	110kW
AC rated voltage	400V
AC rated frequency	50Hz/60Hz
Rated Output current	144A
Maximum output current	159A
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%rated output current
Power factor	-0.99~0.99
Reactive power controllable range	-100%~ 100%
Isolation method	无
AC system	3W+N+PE/3W+N9 (settable)
Off-grid AC parameter	5W 11 E/5W 113 (Settable)
AC rated voltage	400V
AC rated frequency	50Hz/60Hz
Maxmuim Voltage Total Harmonic Distortion	<3%(linear load)
DC component of voltage	<0.5%U _n (linear balanced load)
Load capacity of unbalance load	100%
Voltage variation range	<3%U _N
Gird-connection and off switch mode	5700 _N
Gird-connection and off switch capacity	Planned off-grid
Passive off-grid switching mode and switching time	<10 ms with switching cabinet
Efficiency	20 His Will SWitching Cashiet
Maximum efficiency	98.7%
Basic parameters	301170
Dimensions (W X H X D)	542mm×717mm×265mm
Weight	53kg
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	<20
HMI	Touch Screen
Communication Interface	RS485, Ethernet, CAN
Support protocols	Modbus TCP, Modbus RTU
	MOUDUS ICF, MOUDUS KIU