## **TECLOMAN**

## 30kW Modular PCS

TPCS-30M



## Product overview

The 30kW 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
- (15) -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
- $\begin{bmatrix} \downarrow \uparrow \downarrow \end{bmatrix}$  Integrated EMS, intelligent management



Model	TPCS-30M	
DC paramete		
Maximum operating voltage	900V	
Minimum operating voltage	50V	
Full load voltage range	300V~850V	
Maximum input current	113A	
Grid-connected AC parameter		
Rated output power	30kW	
Maximum output power	33kW	
AC rated voltage	400V	
AC rated frequency	50Hz/60Hz	
Rated Output current	43A	
Maximum output current	48A	
Maximum overload capacity	110%overload (long-term), 120%overload (1min)	
AC voltage range	85%U <sub>N</sub> -110%U <sub>N</sub>	
AC frequency range	45~55Hz/55~65Hz (settable)	
Maxmuim Current Total Harmonic Distortion	<3%	
DC component of current	<0.5% rated output curren	
Power factor	-0.99(advance)~0.99 (lag)	
Reactive power controllable range	-100%~ 100%	
Isolation method	none	
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	<0.5%U <sub>n</sub> (linear balanced load)	
Load capacity of unbalance load	100%	
Voltage variation range	<3%U <sub>N</sub>	
Gird-connection and o ffswitch mode		
Gird-connection and o ffswitch capacity	Planned off-grid, passive off-grid	
Passive off-grid switching mode and switching time	Built-in static switch,<10 ms	
Efficiency		
Maximum efficiency	97%	
Basic parameters		
Permissible operating temperature range	-25 °C $\sim$ 55 °C (over 45 °C, it will operate in derating)	
Cooling method	Forced air cooling	
Protection Grade	IP20	
Relative humidity	≤90%RH, non-condensing	
Highest Altitude	4000 m (over 2000 m, it will operate in derating)	
Self power consumption in shutdown	<20W	
НМІ	Touch Screen	
Communication Interface	RS485, Ethernet、CAN	
Support protocols	Modbus TCP, Modbus RTU	