

DC1000V/AC400V or 480V Liquid-Cooled PCS

The main function is to realize the AC and DC bidirectional conversion of electric energy in the energy storage system, to control the charging and discharging process of the energy storage battery pack, to achieve accurate control, optimal management and efficient utilization of electric energy, and to provide a strong guarantee for industrial and commercial energy storage systems.

Efficient and reliable

Liquid-cooled heat dissipation, longer device life. IGBT, reactors, capacitors and other key components have a good temperature equalization effect.

Quality assurance

High-standard quality control system. UL, CE, multi-country grid-connected performance certification.

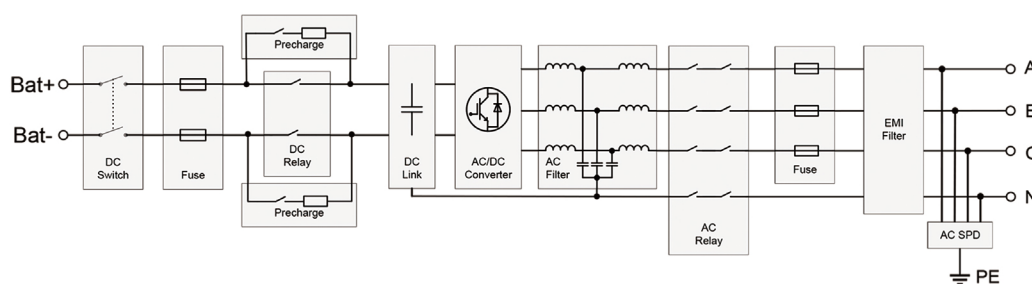
Reliable performance

50° C high temperature stable operation without degrading, friendly system matching. Modular parallel up to 16 units, protect customer's income.

Flexible Adaptation

Supports linkage with BMS and EMS to realize multiple protection. Incorporate high-voltage switch box design.

Circuit Diagram



JTES-100K/125K-W

C&I Smart String Liquid-Cooled PCS

PARAMETER LIST

Model

JTES-100K-W

JTES-125K-W

DC PARAMETERS

Maximum DC Voltage	1000V		1000V	
Maximum DC Current	162A	157A	202A	196A
Full-load DC voltage range	680-1000V	700-1000V	680-1000V	700-1000V

AC PARAMETERS (On-Grid)

Rated power	100kW		125kW	
Maximum Power	110kW		137.5kW	
Rated Grid Voltage	400V (-15% ~ +10%)	480V (-12% ~ +10%)	400V (-15% ~ +10%)	480V (-12% ~ +10%)
Grid Connection Type	3P+N+PE		3P+N+PE	
Rated AC Current	144A	120A	180A	150A
Maximum Output Current	173A(120% rated)	144A(120% rated)	216A(120% rated)	180A(120% rated)
Rated Grid Frequency	50Hz / 60Hz		50Hz / 60Hz	
THDi At Rated Power	< 3.0%		< 3.0%	
DC Component	< 0.5%		< 0.5%	
Power Factor Range	>0.99 (Rated power) / -1 ~ +1		>0.99 (Rated power) / -1 ~ +1	
Continuous Overload	110% Rated long term; 120% Rated operation 1min		110% Rated long term; 120% Rated operation 1min	
Charge/discharge switching time	≤ 20ms		≤ 20ms	

AC PARAMETERS (Off-Grid)

Rated power	100kW		125kW	
Rated Grid Voltage	400V	480V	400V	480V
Rated Grid Frequency	50Hz / 60Hz		50Hz / 60Hz	
THDu At Rated Power	< 3.0%(linear load)		< 3.0%(linear load)	
Off-Grid three-phase unbalance	100%		100%	

SYSTEM CHARACTERISTICS

Maximum Efficiency	98.60%	98.60%
CEC Efficiency	98.00%	98.00%
Cooling	Liquid (50% Ethylene glycol+50% water)	Liquid (50% Ethylene glycol+50% water)
Communication	CAN / Ethernet/ RS-485	CAN / Ethernet/ RS-485
Operating Temperature range	-30℃ ~ +60℃	-30℃ ~ +60℃
Relative humidity	0% ~ 95% (No condensation)	0% ~ 95% (No condensation)
Maximum Inlet Temperature	50℃	50℃
Maximum Altitude	≤ 2000m	≤ 2000m
Noises	< 65dB (1m away from the horizontal position of the device)	< 65dB (1m away from the horizontal position of the device)
Installation	Rackmount/Vertical(optional)	Rackmount/Vertical(optional)
Standard	Compliant with multi-national grid-connection standards including UL1741, IEEE1547, IEC/EN62477, EN50549.	

MECHANICAL PARAMETERS

Dimension	H240mm x W680mm x D850mm	H240mm x W680mm x D850mm
Weight	105kg	117.5kg/124kg
Enclosure	IP65	IP65

