

DC1000V/AC400V SiC Air-Cooled PCS

Drawing on years of liquid-cooling R&D experience, Jingqing Shudian has developed intelligent SiC-based air-cooled PCS. While controlling overall system cost, it achieves high-precision real-time control, dynamic optimized management and efficient conversion of electric energy, providing cost-effective solutions for industrial and commercial energy storage systems.

SiC 130: Reliable, Stable.

SiC, 2-level 4-leg topology, efficiency up to 99%. Full-load at 50°C, higher uptime and utilization.

Flexible & Easy to Replace.

Integrates pre-charge, fuse, contactor and other DC HV devices. Multiple communication ports for flexible BMS/EMS interaction.

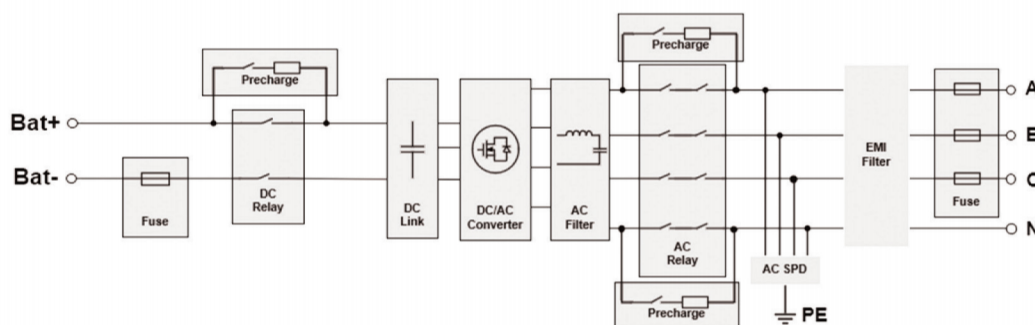
Grid-Friendly, Powerful Control.

Dual AC/DC power supply, reduced losses at discharge end. Supports HVRT/LVRT, compatible with PQ/VF/VSG modes.

Full-featured, Stable Operation.

Supports 16 PQ units & 8 VF units operating in parallel. Dual safety: leakage current monitoring + startup insulation self-test.

Circuit Diagram



JTES-SiC130K-A C&I Smart String SiC Air-Cooled PCS

PARAMETER LIST

Model

JTES-SiC130K-A

DC PARAMETERS

Maximum DC Voltage	1000V
Max DC Current	220A
Battery Pack Voltage Range	650-1000V

AC PARAMETERS (On-Grid)

Rated power	130kW
Maximum AC Power	143kW
Rated Grid Voltage	400V (-15% ~ +10%)
Grid Connection Type	3P+N+PE
Rated AC Current	188A
Maximum Output Current	225A(120% rated)
Rated Grid Frequency	50Hz / 60Hz
THDi At Rated Power	< 3.0%
DC Component	< 0.5%
Power Factor Range	>0.99 (Rated power) / -1 ~ +1
Continuous Overload	110% Rated long term;120% Rated operation 1min
Charge/discharge switching time	≤ 20ms

AC PARAMETERS (Off-Grid)

Rated power	130kW
Rated Grid Voltage	400V
Rated Grid Frequency	50Hz / 60Hz
THDu At Rated Power	< 3.0%(linear load)
Off-Grid three-phase unbalance	100%

SYSTEM CHARACTERISTICS

Maximum Efficiency	99.00%
Full-load efficiency	98.00%
Cooling	Intelligent forced air cooling
Communication	CAN / Ethernet/ RS-485
Operating Temperature range	-30°C ~ +60°C
Relative humidity	0% ~ 95% (No condensation)
Max temp. no derating	50°C
Maximum Altitude	≤ 2000m
Noises	< 70dB (1m away from the horizontal position of the device)
Installation	Rackmount
Standard	IEC/EN62477, EN50549, GB34120

MECHANICAL PARAMETERS

Dimension	H230mm x W520mm x D760mm
Weight	≤ 60kg
Enclosure	IP20

