

PWS1-135M-CN/EX/NA/MG(-R)



Features

Flexible Configuration

- PCS integrated with HV Box, system cost reduction
- -R version does not integrate the HV box
- Wide voltage range of 600~1000Vdc
- Compatible with air/liquid-cooling BESS
- Multiple mounting methods
- Support -CN/EX/MG : 400Vac
- -NA : 480/208Vac@70kW

High Efficiency & Stability

- Third-generation semiconductor, silicon carbide
- Modular design, easy to install and maintain
- Multi-branch battery access cluster management improved battery utilization
- Nominal Power Efficiency of 98%
- System online rate of 99%
- System utilization rate of 99%

Extensive Use

- Four-quadrant active and reactive regulation
- Supports constant power, constant voltage and limiting current control

Safety & Compatibility

- 3P4W output for on-grid and off-grid application
- Power response speed < 15ms
- Compatible with various BMS and EMS

Specification

Model	PWS1-135M-CN	PWS1-135M-EX	PWS1-135M-NA	PWS1-135M-MG
Utility-interactive Mode				
Nominal Power	135kW			
AC Voltage	400 (-15%~15%) Vac	400 (-15%~15%) Vac	480 (-15%~15%) Vac	400 (-15%~15%) Vac
DC Voltage Range	600V~1000V	600V~1000V	720V~1000V	600V~1000V
DC Voltage @full load	720~1000V			
DC Current	193A			
AC Connection	3P3W/3P4W			
AC Frequency	50/60 ± 5Hz	50 ± 5Hz	60 ± 5Hz	50 ± 5Hz
THDI	≤ 3%			
Voltage Ripple Coefficient	≤ 1%			
AC PF	-1~1			
Current Overload	1.1 times long-term			
Stand-alone Mode				
Nominal Power	135kW			
AC Voltage	400 (-15%~15%) Vac	400 (-15%~15%) Vac	480 (-15%~15%) Vac	400 (-15%~15%) Vac
DC Voltage Range	600V~1000V	600V~1000V	720V~1000V	600V~1000V
DC Voltage @full load	720~1000V			
DC Current	193A			
AC Connection	3P4W			
AC Frequency	50/60 ± 5Hz	50 ± 5Hz	60 ± 5Hz	50 ± 5Hz
AC PF	-1~-0.3, 0.3~1			
Current Overload	1.1 times long-term / 1.2 times for 1min / 1.5 times for 10s			
System Parameters				
Certification (TBD)	GB/T 34120	EN 50549/ IEC 62477/ IEC 62109/ IEC 61000	UL 1741&IEEE 1547/E5000/ FCC/CRD/UL 1998	IEC 62477/ IEC 62109/ IEC 61000
Nominal Power Efficiency	98%			
Dimensions (W*H*D)	720*265*960mm			

Specification

Noise	< 75 dB @ 1 m
Weight	≤115kg
Enclosure	IP66 C5
Operation Temperature	-40°C~ 60°C (≥ 55°C derating)
Cooling	Forced air cooling
Operation Humidity	0~100% (no condensation)
Operation Altitude	3000 m (> 3000 m derating)
Communication	
Communication	RS 485, Ethernet, CAN
Communication Protocol	Modbus TCP/RTU, IEC 104, CAN 2.0
BMS Access	Support