

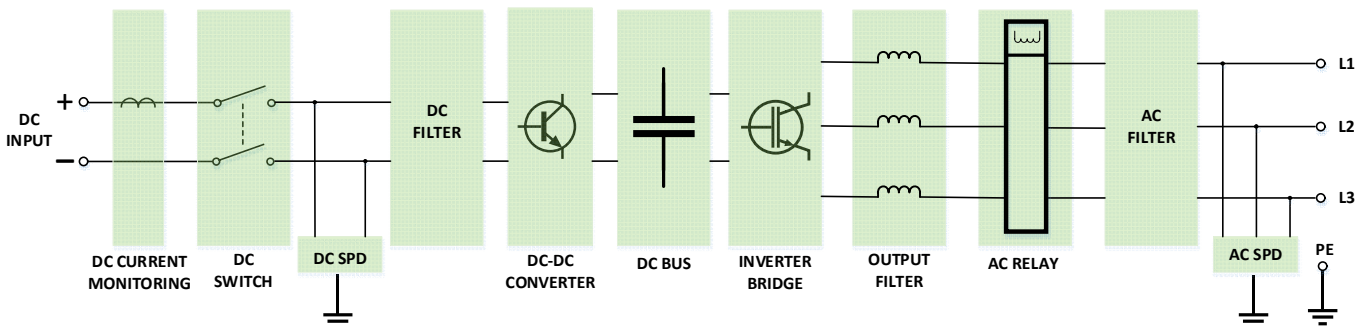
200kW/200kVA, 1500Vdc PCS String Inverters for North America



Key Features

- NFPA 70, NEC 2017 compliant
- Integrated DC disconnect switch
- Protection functions for enhanced reliability and safety
- Full power capacity up to 45°C
- NAME Type 4X outdoor rated
- Integrated DC-DC bi-directional converter
- Standard 5-year warranty with extension to 20 years
- Rack mountable up to 1MW
- Wide DC voltage range, suitable for different batteries
- Modular design, easy for maintenance

Circuit Diagram



Model Name	CPS ECB200KTL/US-800
DC Input	
Max. DC Input Voltage	1500V
Min. DC Input Voltage	875V
Operating DC input Voltage Range	950-1500V (45°C)
Max. DC Input Current	218A
Max. DC Input Power	207kW
DC Disconnection Type	Load-rated DC Switch
DC Surge Protection	Type II
AC Output	
Rated AC Output Power @ PF>0.99	200kVA / 200kW @ 45°C 170kVA / 170kW @ 50°C
Rated Output Voltage	800Vac
Output Voltage Range	704-880Vac
Grid Connection Type	3-Phase / PE
Max. AC Output Current @ 800Vac	145A
Nominal Grid Frequency / Grid Frequency	60 Hz / 55 – 65 Hz
Adjustable Reactive Power	-100 % – 100 %
AC Current THD	< 3 % (at nominal power)
DC Current Injection	< 0.5 % Inom.
Max. OCPD Rating	285A
AC Surge Protection	Type II
System and Performance	
Max. Efficiency	98.0%
CEC Efficiency	97.0%
Stand-by Consumption	<30W
Environment	
Enclosure Protection Degree	NEMA Type 4X
Cooling Method	Variable speed cooling fans
Operating Temperature Range	-22°F to +140°F / -30°C to +60°C (derating from +113°F / +45°C)
Operating Humidity	0 to 100%
Operating Altitude	9842.5ft / 3000m (no derating)
Display and Communication	
User Interface and Display	LED indicators, WiFi + APP
PCS Inverter Monitoring	CAN / Ethernet / RS485
Modbus Data Mapping	SunSpec / CPS
Mechanical	
Dimensions (WxHxD)	29.5 x 13.1 x 33.5in (750 x 332 x 850mm)
Weight	264.6lbs / 120kg
AC Termination	Right Angle Plug (Wire range: 3/0~4/0AWG CU, Plugs not supplied)
DC Termination	Right Angle Plug (Wire range: 4/0AWG CU, Plugs not supplied)
Safety	
Certifications and Standards	UL1741, CSA-22.2 NO.107.1-16, IEEE1547-2018, FCC Part 15
Selectable Grid Standard	IEEE1547-2018, IEEE1547.1-2010
Smart-Grid Features	Volt-Ride Thru, Freq-Ride Thru, Ramp-Rate, PF, Volt-Var, Freq-Watt, Volt-Watt
Protection Functions	
Black Start	Yes
Reverse Polarity Protection	Yes
Overvoltage Protection	Yes
Grid Monitoring	Yes

Ground Fault Monitoring	Yes
Active/Reactive Power Response Time	<100mSec.
Warranty	
Standard	5 Years
Extended Terms	10, 15, 20 Years