



CAB1000 (3L.2)

AC

AC Configuration Max. Cables per Phase ¹	3-wire (3P3W)		6 x 600 kcmil or 6 x 300mm ²		
Nominal AC Voltage (+/-10%) ²	480 VRMS	600 VRMS	630 VRMS	660 VRMS	690 VRMS
Nominal AC Current (Export/Import)	1255 VRMS				
AC Export/Import Capacity @ 40°C [kW] ³	1043	1304	1369	1435	1500
Max. Overload Capacity @ 40°C (starting from 66% full load)	120% for 2 sec and 110% for 5 min				
Reactive Power Capacity ^{4,5}	Power Factor 0,8...1 leading/lagging				
Max. Fault Current Allowed from AC Source [kA]	100 (AC RMS) throated version		180 (AC RMS) non-throated version		
Normal Frequency Range [Hz]	50/60 (configurable)				
Efficiency (@690 VAC): Peak CEC Euro [%]	98.8 98.4 98.5				

DC

DC Voltage Range - Max. [VDC] ^{6,8}	720 - 1500	900 - 1500	945 - 1500	990 - 1500	1035 - 1500
DC Voltage Range (at Nominal Power) [VDC] ^{6,8}	761 - 1500	951 - 1500	999 - 1500	1046 - 1500	1094 - 1500
Max. DC Current [ADC]	1400				
Max. Fault Current Allowed from DC Source [kA]	230 (with internal DC fuses, per input)				

Environmental

Ambient Temperature (operation) [°C]	-20°C to 60°C (-40°C as option)				
Protection Degree	Outdoor: IP55 / NEMA 3R. Salt fog kit available for coastal sites				
Max. Elevation [m]	3000+ [9,842 ft. +] (consult EPC for any higher elevation)				
Temperature De-rating	1.7% per degree °C from 40 - 55°C				

Cabinet

Max. Dimensions (H x W x D) [mm/in]	mm: [2281 x 1000 x 1744] / in: [89.8 x 39.4 x 68.7]				
Weight [kg]	1550 (3420 lb)				

Certifications

Safety	UL 1741		C22.2 No. 107.1-16		IEC 62477-1, IEC 62909-1	
EMC	FCC Part 15 Subpart B	IEC/EN 61000-6-2, 6-4	EN 55011	CISPR 32; CISPR 11	IEEE C37.90.2	
Utility Interconnect	UL 1741(SB)	IEEE 1547-2018	CA Rule 21	Hawaii Rule 14	AS4777.2	VDE-AR-N 4110/4120/4130

Protections

AC Fuses DC Fuses [A] ⁷	2 x 1000, 200 kAlc (24kA SC min)		2 x 1100, 230 kAlc (20kA SC min)		
AC DC Surge Protection (SPD)	Type 2 (optionally Type 1 heavy-duty)		Type 1 heavy-duty		
Safety Features	F-stop, AC/DC overvoltage, AC timed overvoltage, inst. and timed overcurrent, overtemperature (both instantaneous and time-overload), condensation, etc.				
Ground Fault Detection (optional)	IMD				

Control

Control Interface	CAN, Modbus TCP/IP				
On-Off Grid Transitions (optional)	Yes UPS mode available				
Black-start Capable (optional)	Yes - requires external control power				
Grid-Tied Control Modes	Voltage mode	PQ (power)	DQ (current)	cosΦ (pf)	STATCOM
Control Power Voltage [V]	208 (1-ph 60 Hz or 230 V 1-ph 50 Hz)				

Notes to Specification Sheet

1. Throat connection available as an option. Max 4 unit parallel connection allowed with throat connection due to current limit. Up to 6 inverters parallel connection allowed when using cable connection for AC.
2. Nominal voltage 480 - 690 VAC +/- 10%. Consult EPC Power for ratings of alternative AC voltages.
3. Power ratings at nominal AC voltage and at $\cos\phi = 1$. Available power reduced in proportion to any AC voltage reduction from nominal.
4. With nominal DC and nominal AC voltage. Reactive power capability will vary depending on DC and AC voltage range requirements at inverter terminals. Additional reactive power capability available as option.
5. Overexcited (leading) is reactive power that increases AC voltage at inverter terminals. Underexcited (lagging) is reactive power that decreases the reactive power at inverter terminals.
6. DC voltage range at nominal AC voltage and at $\cos\phi = 1$. Minimum DC voltage increases with higher AC voltage and if reactive power is required. See manual for details
7. Consult EPC Power for higher interrupt current requirements. Minimum available grid fault currents must be observed for proper operation of AC fuses.
8. DC minimum voltage may be higher to account for High Voltage Ride Through requirements of greater than 6%.