



pro**harvest**[™]
by OutBack Power

Inverter Series

208V & 480V MODELS



Features

- Rugged three-phase (208V and 480V) plug-and-play systems
- Small and light (hand-holdable, 24lbs)
- Non-isolated inverter for use with ungrounded DC systems
- 200-850V MPP voltage range for 600V and 1000V systems
- Two DC string inputs with independent monitoring and Maximum Power Point Tracking (MPPT)
- Waterproof NEMA6, silent convection cooling
- Designed for high reliability, uses no electrolytic capacitors
- Wide temperature range (-40 to 65°C)
- Utility-interactive, listed to UL1741
- Compliant with NEC 690.11 arc detection

Applications

- **Rooftop commercial:** usable where other solutions just won't work such as coastal, desert and high altitude locations
- **Car ports, parking and shade structures:** can be mounted at any orientation, under modules, on racking without extra strengthening (clear of risk of liability from vandalism)



DC Input (2 Identical Inputs)	PRO208-5k75	PRO480-8k
Max. Open Circuit Voltage (per string)	1000VDC	1000VDC
Full Power MPPT Range (per string)	325 to 525VDC	425 to 850VDC
PV Start Voltage	200VDC	200VDC
DC Allowable Stacking Ratio (total, 2 inputs combined)	Must not exceed 8.9 under any circumstances	Must not exceed 6.375 under any circumstances
DC Maximum Input	Current (per DC input): 10A Short circuit current: 30A Source back feed current to input source: 0A	Current (per DC input): 10A Short circuit current: 30A Source back feed current to input source: 0A
DC Disconnect Means	DC connector has been evaluated and approved for use as the load-break disconnect required by the NEC (NEC section 690.17, allowed by the exception of meeting requirements specified in 690.33)	

*On the DC side of the inverter, each input limits at 3kW and/or 10A (208V model) or 5kW and/or 10A (480V model), and the combined total AC output is limited to 5.75kW (208V model) or 8kW (480V model). Higher DC STC string powers may be applied, the inverter limits are as described above.

AC Output	PRO208-5k75	PRO480-8k
AC Maximum	Continuous total output power (to 45°C): 5.75kW Continuous output current (per phase): 16A Output overcurrent protection: 60A	Continuous total output power (to 45°C): 8kW Continuous output current (per phase): 9.6A Output overcurrent protection: 60A
AC Derate (40-65°C)	-102W per °C	-150W per °C
AC Nominal Output Current (per phase)	16A	9.6A
AC Three-Phase System Compatibility	208V Wye, three phases, neutral and ground	480V Wye, three phases, neutral and ground
AC Voltage Range (limits adjustable)	Phase to Phase Minimum: 183V Nominal: 208V Maximum: 229V	Phase to Phase Minimum: 422V Nominal: 480V Maximum: 528V
	Phase to Neutral Minimum: 106V Nominal: 120V Maximum: 132V	Phase to Neutral Minimum: 244V Nominal: 277V Maximum: 305V
AC Output Frequency Range (limits adjustable)	Minimum: 59.3Hz Nominal: 60Hz Maximum: 60.5Hz	Minimum: 59.3Hz Nominal: 60Hz Maximum: 60.5Hz
Power Factor	≥0.98	≥0.98
AC Lower Trip Limit	Frequency Default (±1Hz): 59.3Hz Adjustment (±1Hz): 57 to 59.3Hz Clearing Time Default (±2 Cycles): 0.16s Clearing Time Adjustment (±2 Cycles): 0.16 to 300s	Frequency Default (±1Hz): 59.3Hz Adjustment (±1Hz): 57 to 59.3Hz Clearing Time Default (±2 Cycles): 0.16s Clearing Time Adjustment (±2 Cycles): 0.16 to 300s
	Voltage (Phase to Neutral) Default (±2%): 106V Adjustment (±2%): 85 to 106V Clearing Time Default (±2 Cycles): 2s Clearing Time Adjustment (±2 Cycles): 1 to 20s	Voltage (Phase to Neutral) Default (±2%): 245V Adjustment (±2%): 220 to 245V Clearing Time Default (±2 Cycles): 2s Clearing Time Adjustment (±2 Cycles): 1 to 20s
AC Upper Trip Limit	Frequency Default (±1Hz): 60.5Hz Adjustment (±1Hz): 60.5 to 62.0Hz Clearing Time Default (±2 Cycles): 0.16s Clearing Time Adjustment (±2 Cycles): 0.16 to 300s	Frequency Default (±1Hz): 60.5Hz Adjustment (±1Hz): 60.5 to 62.0Hz Clearing Time Default (±2 Cycles): 0.16s Clearing Time Adjustment (±2 Cycles): 0.16 to 300s
	Voltage (Phase to Neutral) Default (±2%): 132V Adjustment (±2%): 129 to 134V Clearing Time Default (±2 Cycles): 1s Clearing Time Adjustment (±2 Cycles): 1 to 20s	Voltage (Phase to Neutral) Default (±2%): 305V Adjustment (±2%): 305 to 315V Clearing Time Default (±2 Cycles): 1s Clearing Time Adjustment (±2 Cycles): 1 to 20s
AC Reconnect Delay	Default: 5min Adjustment: 1s to 10min	Default: 5min Adjustment: 1s to 10min
AC Synchronization In-Rush Current	0A	0A
Maximum Output Fault Current and Duration	16A, <0.5ms	10A, <0.5ms
AC Minimum Wire Gauge (for grid connection)	12 AWG	14 AWG
AC Disconnect Means	The AC connector has been evaluated and approved for use as the load-break disconnect required by the NEC (NEC section 690.17, allowed by the exception of meeting requirements specified in 690.33)	

Other Specifications	PRO208-5k75	PRO480-8k
Efficiency	Peak: 98% CEC: 97%	Peak: 98.6% CEC: 98%
Dimensions H x W x D (mm/in)	475 x 334 x 76 / 18.75 x 13.125 x 3	475 x 334 x 76 / 18.75 x 13.125 x 3
Weight (kg/lb)	11 / 24	11 / 24
Operating Temperature Range (°C/°F)	-40 to 65 / -40 to 150	-40 to 65 / -40 to 150
Power Consumption	Standby: <4.5W Night: <4.5W	Standby: <4.5W Night: <4.5W
Cooling	Natural convection, no fan	Natural convection, no fan
Communication	Powerline	Powerline
Environmental Rating	Outdoor/rooftop, NEMA 6, IP67	Outdoor/rooftop, NEMA 6, IP67
Certifications	Listed to UL1741/IEEE 1547 (utility interactive) CSA C22.2 No. 107.1, FCC Part 15, meets the requirements of NEC 690.11	
Warranty	10-year, optionally extendable	