



pro**harvest**<sup>™</sup>  
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
<b>Max. Open Circuit Voltage</b> (per string)	1000VDC	1000VDC
<b>Full Power MPPT Range</b> (per string)	325 to 525VDC	425 to 850VDC
<b>PV Start Voltage</b>	200VDC	200VDC
<b>DC Allowable Stacking Ratio</b> (total, 2 inputs combined)	Must not exceed 8.9 under any circumstances	Must not exceed 6.375 under any circumstances
<b>DC Maximum Input</b>	<b>Current</b> (per DC input): 10A <b>Short circuit current:</b> 30A <b>Source back feed current to input source:</b> 0A	<b>Current</b> (per DC input): 10A <b>Short circuit current:</b> 30A <b>Source back feed current to input source:</b> 0A
<b>DC Disconnect Means</b>	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
<b>AC Maximum</b>	<b>Continuous total output power</b> (to 45°C): 5.75kW <b>Continuous output current</b> (per phase): 16A <b>Output overcurrent protection:</b> 60A	<b>Continuous total output power</b> (to 45°C): 8kW <b>Continuous output current</b> (per phase): 9.6A <b>Output overcurrent protection:</b> 60A
<b>AC Derate</b> (40-65°C)	-102W per °C	-150W per °C
<b>AC Nominal Output Current</b> (per phase)	16A	9.6A
<b>AC Three-Phase System Compatibility</b>	208V Wye, three phases, neutral and ground	480V Wye, three phases, neutral and ground
<b>AC Voltage Range</b> (limits adjustable)	<b>Phase to Phase</b> Minimum: 183V Nominal: 208V Maximum: 229V	<b>Phase to Phase</b> Minimum: 422V Nominal: 480V Maximum: 528V
	<b>Phase to Neutral</b> Minimum: 106V Nominal: 120V Maximum: 132V	<b>Phase to Neutral</b> Minimum: 244V Nominal: 277V Maximum: 305V
<b>AC Output Frequency Range</b> (limits adjustable)	Minimum: 59.3Hz    Nominal: 60Hz    Maximum: 60.5Hz	Minimum: 59.3Hz    Nominal: 60Hz    Maximum: 60.5Hz
<b>Power Factor</b>	≥0.98	≥0.98
<b>AC Lower Trip Limit</b>	<b>Frequency</b> 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	<b>Frequency</b> 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
	<b>Voltage (Phase to Neutral)</b> Default (±2%): 106V Adjustment (±2%): 85 to 106V Clearing Time Default (±2 Cycles): 2s Clearing Time Adjustment (±2 Cycles): 1 to 20s	<b>Voltage (Phase to Neutral)</b> Default (±2%): 245V Adjustment (±2%): 220 to 245V Clearing Time Default (±2 Cycles): 2s Clearing Time Adjustment (±2 Cycles): 1 to 20s
<b>AC Upper Trip Limit</b>	<b>Frequency</b> 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	<b>Frequency</b> 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
	<b>Voltage (Phase to Neutral)</b> Default (±2%): 132V Adjustment (±2%): 132 to 144V Clearing Time Default (±2 Cycles): 1s Clearing Time Adjustment (±2 Cycles): 1 to 20s	<b>Voltage (Phase to Neutral)</b> Default (±2%): 305V Adjustment (±2%): 305 to 315V Clearing Time Default (±2 Cycles): 1s Clearing Time Adjustment (±2 Cycles): 1 to 20s
<b>AC Reconnect Delay</b>	Default: 5min Adjustment: 1s to 10min	Default: 5min Adjustment: 1s to 10min
<b>AC Synchronization In-Rush Current</b>	0A	0A
<b>Maximum Output Fault Current and Duration</b>	16A, <0.5ms	10A, <0.5ms
<b>AC Minimum Wire Gauge</b> (for grid connection)	12 AWG	14 AWG
<b>AC Disconnect Means</b>	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
<b>Efficiency</b>	Peak: 98%    CEC: 97%	Peak: 98.6%    CEC: 98%
<b>Dimensions H x W x D</b> (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
<b>Weight</b> (kg/lb)	11 / 24	11 / 24
<b>Operating Temperature Range</b> (°C/°F)	-40 to 65 / -40 to 150	-40 to 65 / -40 to 150
<b>Power Consumption</b>	Standby: <4.5W    Night: <4.5W	Standby: <4.5W    Night: <4.5W
<b>Cooling</b>	Natural convection, no fan	Natural convection, no fan
<b>Communication</b>	Powerline	Powerline
<b>Environmental Rating</b>	Outdoor/rooftop, NEMA 6, IP67	Outdoor/rooftop, NEMA 6, IP67
<b>Certifications</b>	Listed to UL1741/IEEE 1547 (utility interactive) CSA C22.2 No. 107.1, FCC Part 15, meets the requirements of NEC 690.11	
<b>Warranty</b>	10-year, optionally extendable	10-year, optionally extendable