Inverter Benefits

proharvest™ by OutBack Power

FOR INSTALLERS

ProHarvest Inverter Characteristics

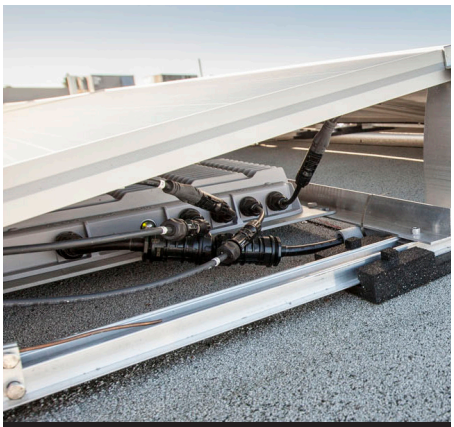
- 8kW, 480V and 5.75kW, 208V three-phase string inverter series
- Non-isolated inverter for use with ungrounded DC systems
- Independent strings, each with their own MPPT, AFCI detection and monitoring
- 1,000 and 600VDC compatible
- Listed to UL1741 utility interactive; NEC 690.11 arc-fault compliance greatly reduces risk of fire

Ideal Applications

- Rooftop solar, carports
- Obstructed and shaded rooftops
- Locations where space is difficult
- 600VDC legacy retrofits/replacements
- Desert and coastal installations, hostile environments with sand, heat, salt, high elevations

Easy Design Integration

- True three-phase/no phase balancing required
- Freedom from orientation or mounting requirements
- Doesn't require concrete pad, wall space, room inside building, roof rack or any special mounting
- No fans or special airflow requirements
- Can be placed out of reach of the general public
- Unbalanced strings—maximized for production
- NEC 2014 Rapid Shutdown '10' Rule' made easy
- NEC 2017 Rapid Shutdown '1' Rule' compliant when array mounted
- Multiple inverters can be connected to a single branch circuit, reducing wiring and OCPD costs
- Maximize production, reduced footprint—high efficiency gives maximum harvest, reduced cooling and minimal space requirements



Units may be tucked away discretely just about anywhere

Waterproof design is small, light enough to carry, and robust (that's a tire with a Subaru attached to it!)

Robust

- Waterproof—NEMA6 enclosure
- All aluminum housing
- No electrolytics means usable at high elevations
- No problems from water penetration
- No special concerns with units getting overly hot
- No flammability concerns

Easy to Install

- 24lbs, easy one person lift
- Transformerless, suitable for ungrounded systems
- No need to spend installation time fitting electronics to every PV module
- Fast connectorized DC & AC wiring
- No DC or AC disconnects required—connectors are the certified means of disconnect which saves on hardware and labor costs
- No lengthy, expensive DC conduit runs to a large inverter
- No DC string combiner boxes required
- Maintenance-free
- No need to install extra wiring for monitoring or communications

Easy to Commission

- Fast dependable auto-discovery of new hardware with ProHarvest communication gateway
- Easy to check strings for mis-wiring, performance issues—every string is monitored, direct read-out of voltages

Comprehensive Monitoring

- Touch-screen gateway simply connects into related single phase branch circuit
- Gateway communicates over power lines using proprietary technology that actually works—translating into no extra wiring and no wireless blind spots etc.
- Optional RS485 Modbus® interface

Easy to troubleshoot

- Gateway allows for easy AC & DC monitoring and troubleshooting; easily and quickly identify under-performing strings, faulty connectors and unsafe conditions
- Fast one-person unit swaps, no electrician required
- No additional equipment needed for inverter replacement
- Easy on-site sparing

System health is easy to see once the ProHarvest communication gateway is connected to the Internet, with rapid auto-discovery of new hardware and fast updates

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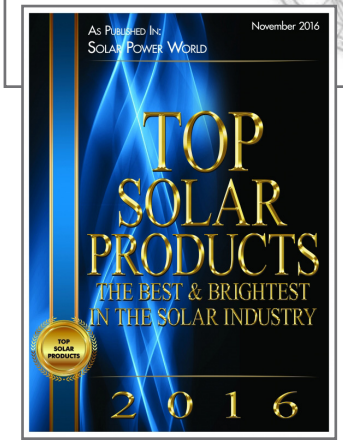

For more information, please contact your local representative or visit www.outbackpower.com