



Utility-Interactive Renewable Energy

- ▶ Utility-interactive three-phase inverter with models ranging from 10 kW to 45 kW. Multiple inverters may be paralleled for larger power installations
- ▶ Designed for cost-effectiveness, high performance, easy installation, and reliability
- ▶ Advanced MPPT technology maximizes PV array output (not for use with batteries)
- ▶ Revolutionary switching technology utilizes insulated gate bi-polar transistors (IGBT), greatly reducing power losses during the conversion process
- ▶ Meets all applicable UL, IEEE, and NEC codes
- ▶ Listed by the CEC in California and NYSEDA in New York
- ▶ Automatic operation includes startup, shutdown, self-diagnosis, and fault detection

Features

- ▶ Efficient design with over 95% peak efficiency for the inverter
- ▶ Overall efficiency, including transformer losses, in excess of 93%
- ▶ Digital Signal Processor (DSP) based controls with self-diagnostics and LCD for display of operating status.
- ▶ Inverter shut-off and reset toggle switch
- ▶ Over-and-under-voltage and frequency protection, to shut down the inverter in compliance with UL1741
- ▶ Anti-islanding protection prevents back-feeding inverter-generated power to the grid in the event of a utility outage
- ▶ User-definable power tracking matches the inverter to the array, as well as adjustable delay periods to customize system shutdown sequences

Options

- ▶ Variety of system accessories for ease of system installation, including combiner boxes, isolation transformers, disconnect switches, etc
- ▶ Graphical user interface software for real-time communication and control
- ▶ Complete inverter kits incorporating all required accessories for NEC code-compliant installation are available

High Voltage Commercial Scale Power Conversion Center



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PV Inverter

Electrical Specifications

Models	PV10	PV15	PV20	PV30	PV45	
Continuous power rating	10 kW	15 kW	20 kW	30 kW	45 kW	
Nominal AC voltage (from inverter)	208 Vac	208 Vac	208 Vac	208 Vac	208 Vac	Three-phase, +10% / -12%
Nominal AC voltage (from isolation transformer)	208 / 240 / 480 Vac	208 / 240 / 480 Vac	208 / 240 / 480 Vac	208 / 240 / 480 Vac	208 / 240 / 480 Vac	Three phase, +10% / -12%
Nominal AC frequency	60 Hz	60 Hz	60 Hz	60 Hz	60 Hz	+0.5 Hz / -0.7 Hz
Line power factor	> 0.99	> 0.99	> 0.99	> 0.99	> 0.99	Above 20% rated power
Maximum AC line current	30.8 Aac	46.3 Aac	61.7 Aac	94 Aac	143 Aac	
AC current distortion	< 5% THD	< 5% THD	< 5% THD	< 5% THD	< 5% THD	At rated power
Max. open circuit voltage	600 Vdc	600 Vdc	600 Vdc	600 Vdc	600 Vdc	
Power tracking window range	330-600 Vdc	330-600 Vdc	330-600 Vdc	330-600 Vdc	330-600 Vdc	
Max. DC input current	31.9 Adc	47.8 Adc	63.8 Adc	100 Adc	150 Adc	
Max. ripple current	< 5%	< 5%	< 5%	< 5%	< 5%	% of rated current
CEC efficiency	90-92%	91.5%	92%	92%	92-92.5%	

General Specifications

Temperature range						
Ambient	-4 °F to 122 °F (-20 °C to 50 °C) (all models)					
Storage	-40 °F to 122 °F (-40 °C to 50 °C) (all models)					
Enclosure environmental rating	NEMA 4	NEMA 4	NEMA 4	NEMA 3R	NEMA 3R	
Enclosure	Galvaneal folded steel enclosure (all models)					
Weight	115 lb	160 lb	160 lb	260 lb	260 lb	
	52 kg	73 kg	73 kg	118 kg	118 kg	
Dimensions (H x W x L)	26 x 16 x 12"	28 x 24 x 15"	28 x 24 x 15"	54 x 36 x 19"	54 x 36 x 19"	
	660 x 410 x 300 mm	710 x 610 x 380 mm	710 x 610 x 380 mm	1370 x 910 x 480 mm	1370 x 910 x 480 mm	
Altitude	6,600' (2,012 m)	6,600' (2,012 m)	6,600' (2,012 m)	6,600' (2,012 m)	6,600' (2,012 m)	
Relative humidity	0 to 95%	0 to 95%	0 to 95%	0 to 95%	0 to 95%	Non-condensing
Array configuration	Monopole, negative grounded and positive grounded (all models)					

Features & Options

Cooling method	Forced convection cooling
Protective functions	AC over / under-voltage, AC over / under-frequency, ground over-current, over-temperature, AC and DC over-current, DC over-voltage
User display	Standard - LCD, four-line, 20-character, with on/off toggle switch
AC disconnect	Optional - NEMA 3R wall mount enclosure, load break rated
DC disconnect	Optional - NEMA 3R wall mount enclosure, 600 Vdc load break rated
Combiner enclosures	Optional - 10 or 12 pole, with or without diodes, NEMA 3R wall mount enclosure
Isolation transformer	Optional - High efficiency NEMA 3R wall or floor mount enclosure
Communications software	Optional - Serial communications and control software

Regulatory Approvals

Listed to UL Standard 1741, UL File No. E199356

Specifications subject to change without notice.