

# Specifications

Inverter Technology	Sine-wave, current source, high frequency PWM
AC Input Voltage	106 - 132 @ 120 V AC
AC Input Frequency	59.3 - 60.5 (60 Hz)
Peak Power Tracking Voltage	125 - 200 V DC / 100 - 160 V DC / 77 - 120 V DC
Range of Input Operating Voltage	125 - 250 V DC / 100 - 200 V DC / 77 - 150 V DC
Maximum DC Power	780 W / 670 W / 510 W
Maximum AC Continuous Output Power	700 W / 600 W / 460 W
Current THD	Less than 3%
Output Power Factor	> 0.99 @ nominal power
Peak Inverter Efficiency	93.6 % / 93.3 % / 92.4 %
CEC Weighted Efficiency	91.5 %
Cooling	Convection cooling (no fan)
PV Start Voltage	150 V DC / 125 V DC / 95 V DC
Maximum AC Continuous Output Current	6.6 A / 5.7 A / 4.3 A
Maximum DC Input Current	7 A

Maximum Input Short Circuit Current	18 A
Maximum Input Source Back-feed Current to Input Source	15 A
Maximum Output Fault Current	15 A
Maximum Output Overcurrent Protection	15 A
Synchronization In-Rush Current	3.6 A
DC Voltage Ripple	Less than 10 %
Power Consumption	0.1 W nighttime, < 4 W in operation
Ambient Temperature Rating	-13 °F ... +113 °C -25 °C ... +45 °C
Enclosure	NEMA 4X (IP65) (stainless steel)
Dimensions	12.70 W x 12.60 H x 7.10 D inches (322 W x 320 H x 180 D mm)
Weight	35 lbs. (16 kg)
Compliance	UL1741, UL 1998, IEEE 929, IEEE 1547, IEEE C37.90.1, IEEE C62.41.2 (test conditions 2 kV / 1 kA), FCC Part 15 A & B

Specifications subject to change without notice.

# Trip Limits / Trip Times

Nominal Freq. (Hz)	Trip Limit (Hz)	Trip Frequencies (Hz)	Trip Times (s)
60	> 60.5	60.45 - 60.55	max. 0.1602
	< (57.0 - 59.8) (default 59.3)	56.95 - 59.85 (default 59.25 - 59.35)	adjustable 0.16 - 300 (default max. 0.1602)
	< 57.0	56.95 - 57.05	max. 0.1602

Nominal Voltage (V)	Trip Limit	Trip Voltages Line-to-Neutral (V)	Trip Voltages Line-to-Line (V)	Trip Times (s)
120	50 %	57.6 - 62.4	N/A	max. 0.1602
	88 %	103.2 - 108.0		max. 2.002
	110 %	129.6 - 134.4		max. 1.001
	120 %	141.6 - 146.4		max. 0.1602

## Manufacturer's Accuracies:

- Trip Limit Accuracy:  $\pm 2\%$  of nominal grid voltage
- Trip Time Accuracy:  $\pm 0.1\%$  of nominal trip time
- Trip Frequency Accuracy:  $\pm 0.1\%$  of nominal frequency

# Torque Values and Wire Sizes

Terminal	in. lbs.	Nm.	Wire Size
AC Terminal Blocks	15	1.7	6 - 14 AWG
DC Terminal Blocks	15	1.7	6 - 10 AWG
Protective Earth Terminal Blocks	15	1.7	6 - 14 AWG