



Iron Edison's RE-VOLT™ System Inverter



TECHNICAL SPECIFICATIONS

Revised 8/11/2020



- **Integrated DC and AC Charge Controller**
- **96.5% (Peak 97.5%)**
- **120/240/208V**
- **Auto-Generator Start**
- **PV Rapid Shut Down**
- **Built in Arc Fault and Ground Fault detection**
- **External current sensors**
- **Battery communications**
- **Off-grid and Grid-tied capable**
- **AC Coupling (Add battery to existing grid-tie installs)**
- **Peak Shaving: Reduces peak demand charges**

	REV0-5000-INV	REV0-7600-INV
Battery Input Data		
Battery Type	Lithium or Lead Acid	
Battery Voltage Range (V)	40-60v	40-60v
Max. Charging Current (A)	120A	190A
Charging Curve	3 Stages/Equalization	
External Temp Sensor	Optional	
Charging Strategy for Lithium	Self-adaptive BMS	
PV String Input Data		
PV Input Voltage (V)	370V(100-500V)	
Max DC Input Power (W)	6500W	9880W
MPPT Range (V)	125V-425V	
Start-up Voltage (V)	125V	
PV Input Current (A)	11A+11A	18A+18A
Number of MPPT Trackers	2	
Number of Strings per Tracker	1+1	2+2
AC Output Data		
Max AC Output Power (W)	5500	8360W
Rated AC Output and UPS Power (W)	5000W	7600W
AC Output Rated Current (A)	20.8A	31.7A/33A
Peak Power (Off Grid)	Times 2 the rated power, 10 S	
Output Frequency and Voltage	50/60Hz 120/240VAC (Split Phase), 208 VAC (2/3 phase), 230VAC (Single Phase)	
Max Continuous AC Pass-through (A)	35A	50A
Current Harmonic Distortion	THD<3%(Linear Loading<1.5%)	
Grid Type	Split Phase, 2/3 Phase, Single Phase	



720-432-6433

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	REV0-5000-INV	REV0-7600-INV
Efficiency		
Max Efficiency		97.50%
MPPT Efficiency		99.90%
Protection		
PV Arc Protection		Integrated
PV Input Lightning Protection		Integrated
Anti-islanding Protection		Integrated
PV String Input Reverse Polarity Protection		Integrated
Insulation Resistor Detection		Integrated
Residual Current Monitoring Unit		Integrated
Output Over Current Protection		Integrated
Output Shorted Protection		Integrated
Output Over Voltage Protection		Integrated
Certifications and Standards		
Grid Regulation	UL1741, IEEE 1547, RULE21, VDE 0126, AS4777, NRS2017, G98, G99	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN6100-63, FCC 15 class B	
General Data		
Operating Temperature Range	13°-140°F, > 113°F Derating	
Cooling	Fan	
Noise (dB)	<30	
Communication with BMS	RS485, CAN	
Weight	32Kg	
Size (Width x Height x Depth)	27 x 16.50 x 9.25 Inches	
Protection Degree	IP65	
Installation Type	Wall or Rack Mounted	



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