

# Low Voltage Hybrid Inverters

## 5kw/7.6kW/8kw

Version 5 - Published 10/05/2023



## Key Features

- **Friendly installation** – Compact design for easy solar integration and energy storage.
- **Web Portal and Mobile App** – Provides end user and installer with access to monitoring energy cost control and fleet management.
- **EPS (Emergency Power Supply)** – Will power essential circuits during an outage when paired with a Renogy X ESS.
- **Mode Selections** – Multiple modes available to manage operation of the complete system solution.
- **RGM (Revenue Grade Meter) compatible** – RGM add-on available upon request for additional cost

**Key  
Partners**

**goodleap**



**MOSAIC**

**DIVIDEND**

**GreenSky**

# Technical Specifications

	Renogy X 5kw LV	Renogy X 7.6kw LV	Renogy X 8kw LV
Model Number	RIV4850HI-SPS	RIV4876HI-SPS	RIV4880HI-SPS
<b>General</b>			
Max. Efficiency	≥98.2%		
CEC Efficiency	≥97.2%		
Ingress Protection	IP65/NEMA 3R		
Noise Emssion (dB)	<25		
Operation Temperature (F/C)	-13°F to 140°F (-25°C to 60°C)		
Cooling	Natural		
Relative Humidity	0-95% (non-condensing)		
Dimensions W x D x H (in/mm)	17.72 x 8.66 x 27.95 (450 x 220 x 710)		
Weight (lbs./kg)	90.39 (41)		
Self-Consumption (W)	<3		
<b>Input (PV)</b>			
Max. Power (kw)	7.5	12	12
Max. DC Voltage (V)	500	500	500
MPPT Voltage Range (V)	120-500	120-500	120-500
Max. Input Current of Single MPPT (A)	12	12	12
MPPT Tracker/Strings	4/1	4/1	4/1
<b>AC Output</b>			
Rated Output Power (kVA)	5	7.6	8
Nominal AC Current Output to Grid (A)	20.8	8.4	33.3
Max AC Current Output to Grid (A)	22.9	31.7	36.7
AC Output Voltage (V)	120/240 (split phase)	120/240 (split phase)	120/240 (split phase)
Frequency (Hz)	50/60	50/60	50/60
THDi	<3%	<3%	<3%
<b>Battery</b>			
Battery Voltage Range (V)	40-58	40-58	40-58
Max. Charging Voltage (V)	58	58	58
Max. Charge/Discharge Current (A)	120/120	190/190	190/190
Battery Type	Lithium / Lead-Acid	Lithium / Lead-Acid	Lithium / Lead-Acid
Communication Interface	CAN/RS485	CAN/RS485	CAN/RS485
<b>EPS</b>			
Rated Output Voltage (V)	120/240 (split phase)	120/240 (split phase)	120/240 (split phase)
Rated Frequency (Hz)	50/60	50/60	50/60
Automatic Switching Time (ms)	<20	<20	<20
THDu	<2%	<2%	<2%
Overload Capacity	125% (60s) / 150% (1s)	125% (60s) / 150% (1s)	125% (60s) / 150% (1s)
<b>Display and Communication</b>			
Interface	RS485/Wifi/4G/CAN		
Safety Standard	UL1741SA All Options, UL1741SB, UL1699B, CSA 22.2		
EMC	FCC Part 15, Class B		
On-Grid	IEEE 1547 / IEEE 2030.5 / Rule 21 Phase I,II, III, NRS		
Warranty	10 Years		