



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



MOSAIC

DIVIDEND



Technical Specifications

	Renogy X 7.6kw LV
Model Number	RIV4876HI-SPS
General	
Max. Efficiency	≥98.2%
CEC Efficiency	≥97.2%
Ingress Protection	IP65/NEMA 3R
Noise Emission (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
Input (PV)	
Max. Power (kw)	12
Max. DC Voltage (V)	500
MPPT Voltage Range (V)	120-500
Max. Input Current of Single MPPT (A)	14
MPPT Tracker/Strings	4/1
AC Output	
Rated Output Power (kVA)	7.6
Max. Apparent Output Power (kVA)	8.4
Nominal AC Output Current (A)	31.7
Max. Output Current (A)	35A
AC Output Voltage (V)	120/240 (Split Phase)
Frequency (Hz)	50/60
THDi	<3%
Battery	
Battery Voltage Range (V)	40-58
Max. Charging Voltage (V)	58
Max. Charge/Discharge Current (A)	190/190
Battery Type	Lithium / Lead Acid
Communication Interface	CAN/RS485
EPS	
Rated Power (kVA)	7.6
Max Apparent Output Power (kVA)	8.4
Rated Output Voltage (V)	120/240 (Split Phase)
Rated Output Current (A)	38.3
Rated Frequency (Hz)	50/60
Automatic Switching Time (ms)	<20
THDu	<2%
Overload Capacity	120% (60s) / 150% (1s)
Display and Communication	
Display	LCD, Touch Screen
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