



## 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



Renogy X is a subsidiary company under RNG International, Inc.

# 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  | 11.4                   | 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) | 14   | 14                     | 14                     |
| Max. Input Short Circuit Current(A)   | 22   | 22                     | 22                     |
| MPPT Tracker/Strings                  | 4/1  | 4/1                    | 4/1                    |
| <b>AC Output</b>                      |  |                        |                        |
| Rated Output Power (kVA)              | 5  | 7.6                    | 8                      |
| Max. Output Current (A)               | 24   | 31.7                   | 38.3                   |
| 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 Power (kVA)                     | 5  | 7.6                    | 8                      |
| Rated Output Voltage (V)              | 120/240 (split phase)                                  | 120/240 (Split Phase)  | 120/240 (split phase)  |
| Rated Output Current (A)              | 24   | 38.3                   | 38.3                   |
| 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)                                 | 120% (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                              | 12 Years   |                        |                        |

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