



Key Features

- The easy-to-install Renogy X inverter has a **compact** and **compatible design** for **easy solar integration** and **storage**.
- LCD touch screen for **easy selection management**.
- EPS will power your **essential circuits** in case of a power outage.
- Web portal access and mobile monitoring app for **on-the-go control** and **energy cost control**.
- The Renogy X features an **automatic** or **manual mode** for Emergency Power Supply selection.

Technical Specifications

	Renogy X 8kW LV	Renogy X 5kW LV
General		
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	
Input (PV)		
Max. Power (kw)	12	7.5
Max. DC Voltage (V)	500	500
MPPT Voltage Range (V)	120-500	120-500
Max. Input Current of Single MPPT (A)	12	12
MPPT Tracker/Strings	4/1	4/1
AC Output		
Rated Output Power (kVA)	8	5
Max. Output Current (A)	38.3	24
AC Output Voltage (V)	120/240 (split phase)	120/240 (split phase)
Frequency (Hz)	50/60	50/60
THDi	<3%	<3%
Battery		
Battery Voltage Range (V)	40-58	40-58
Max. Charging Voltage (V)	58	58
Max. Charge/Discharge Current (A)	190/190	120/120
Battery Type	Lithium / Lead-Acid	Lithium / Lead-Acid
Communication Interface	CAN/RS485	CAN/RS485
EPS		
Rated Power (kVA)	8	5
Rated Output Voltage (V)	120/240 (split phase)	120/240 (split phase)
Rated Output Current (A)	38.3	24
Rated Frequency (Hz)	50/60	50/60
Automatic Switching Time (ms)	<20	<20
THDu	<2%	<2%
Overload Capacity	125% (60s) / 150% (1s)	125% (60s) / 150% (1s)
Display and Communication		
Display	LCD, Touch Screen	
Interface	RS485/Wifi/4G/CAN	
Safety Standard	UL1741SA All Options, 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	