

# All-In-One Inverter

Around

**30%** MPPT energy efficiency improvement

**94%** Maximum inverter efficiency



All-in-one design



Power saving mode



Instant viewing of operation



Multiple safety protections

## Technical specifications

### Battery input

Battery type	Lithium Ferro-Phosphate (LFP)	Rated battery input voltage	48 V ( minimum startup voltage 44 V)
Hybrid charging maximum charging current	120 A	Battery voltage range	40 Vdc - 60 Vdc $\pm$ 0.6 Vdc

### Solar input

Maximum PV open-circuit voltage	145 Vdc	Maximum PV input current	50 A
PV working voltage range	60 - 145 Vdc	Maximum PV input power	4,400 W
MPPT voltage range	60 - 115 Vdc	Maximum PV charging current	80 A

### AC input (generator/grid)

Mains maximum charging current	40 A	Mains charging efficiency	> 95%
Rated input voltage	110 / 120 Vac	Switching time	10 ms (typical value)
Maximum bypass overload current	40 A	Frequency	50 Hz / 60 Hz (automatic detection)
Input voltage range	(90 Vac - 140 Vac) $\pm$ 2%		

### AC output

Output voltage waveform	Pure sine wave	On-load motor capacity	2 HP
Peak power	3,500 VA	Maximum efficiency	> 91 %
Output frequency range	50 Hz $\pm$ 0.3 Hz / 60 Hz $\pm$ 0.3 Hz	Rated output voltage	120 Vac (180 / 185 / 110 Vac)
Rated output power	3,500 Vac (2,900 / 2,050 / 3,200 Vac)	Rated output power	3,500 W (2,900 / 2,050 / 3,200 W)
No-load loss	Non energy-saving mode: $\leq$ 50 W      Energy-saving mode: $\leq$ 25 W (manual setup)		

### General

Certificate	CE (IEC 62109-1) / CETLCUL1741 / CSA C22.2 NO.107.1		
EMC certification level	EN61000, C2	Storage temperature range	-13°F - 140°F (-25°C - 60°C)
Working temperature range	5°F - 131°F (-15°C - 55°C)	Humidity range	5% - 95%
Weight	23.8 lbs (10.8 kg)	Dimension	16.8 x 12.7 x 4.9 inch (426 x 322 x 124 mm)

Note: All data are based on ROYPOW standard test procedures. Actual performance may vary according to local conditions.