

## EIBS

### Eco Intelligent Battery System

### Hybrid Solar Inverter & Lithium-ion Battery



#### EIBS features:

- ▶ 3 MPPT 5.5kW solar inverter
- ▶ Bi-directional DC/DC converter for the battery
- ▶ Automatic transfer switch
- ▶ Battery charge controller (BATTERY MANAGEMENT SYSTEM)
- ▶ 9.89kWh lithium-ion battery
- ▶ Solar, battery, and whole house monitoring
- ▶ Dynamic Demand Response

## Hybrid Solar Inverter Specifications

### Input (DC: Photovoltaic)

Absolute max. input voltage	600V
Max. usable input power per string	3000W
Operating MPPT voltage range	70 - 550V
Number of independent MPPTs	3
Max. input operating current per string	12.5A
Max. short circuit current 1.25 Imax	15A

### Charge / Discharge (DC: Battery)

	Grid-tied operation	Stand-alone operation
Number of input circuits	1 circuit	1 circuit
Charge power	1.5kW <sup>*1</sup>	1.5kW <sup>*1</sup>
Discharge power	2.0kW <sup>*1</sup>	2.0kW <sup>*1</sup>
Conversion method (Charge)	PWM method by power command (Constant current, Constant voltage control)	Bus voltage stabilization PWM method (Constant current, constant voltage control)
Conversion method (Discharge)	PWM method by power command	Bus voltage stabilization PWM method

### Output (AC: Grid-tied)

Grid connection type	Split · φ /3W
Conversion method	Voltage type current controller method
Rated output power <sup>*2</sup>	5500W
Rated AC voltage	240V
Nominal AC voltage range	AC211.2V-264V
Grid frequency range	60Hz / 56.0Hz to 64.0Hz
Max. output current	22.9A
Power factor at rated output power	≥ 0.95

### Output (AC: Stand-alone)

Connection Type	Single phase 2-wire
Conversion method	Voltage type voltage controller method
Max. output power	2.0kVA <sup>*3</sup>
Rated output voltage	120±5V

### Efficiency (Solar)

Max. efficiency	95%
CEC Efficiency	TBD

### General Data

Inverter Dimensions W x H x D	680 x 1200 x 250 mm (26.8 x 47.2 x 9.8 in)
Inverter Weight	65Kg (143.3lb) <sup>*4</sup>
Battery Dimensions W x H x D	580 x 600 x 551.5 mm (22.8 x 23.6 x 21.7 in)
Battery Weight	110Kg (243lb) <sup>*4</sup>
Operating temperature range	-20° C to + 40° C (Inverter)
Topology	Transformerless
Cooling concept	Active cooling (fan)
Enclosure Rating	Inverter = NEMA 3R (equivalent), Battery = Indoor

### Features

Remote Controller	Accessory
Communication Interface	RS-485
Certification	UL1741/1699B/60950-1, CSA C22.2. No 107.1/No. 60950-1, IEEE 1547a, CEC, Hawaii requirement, FCC class B
Advanced inverter function	Upgradable

