TABUCHI ELECTRIC

EIBS

Eco Intelligent Battery System

Hybrid Solar Inverter & Lithium-ion Battery

Tabuchi Electric, a worldwide leader in solar inverter manufacturing, offers a hybrid solar inverter + battery system for the North American market. Optimized for energy management and cost performance.

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

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Hybrid Solar Inverter (EHW-S55P3B-PNUS)

Input (DC: Photovoltaic)

Max. input voltage	450V
Max. usable input power per string	2150W
Operation voltage range	80 - 450V
Min. input voltage/Start voltage	80V/100V
Number of independent MPPTs	3
Max. input operating current per string	10.3A
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 *1	1.5kW *1
Discharge power	2.0kW *1	2.0kW *1
Conversion method (Charge)	PWM method by power command (Constant current, Constant voltage control)	Bus voltage stablization PWM method (Constant current, constant voltage control
Conversion method (Discharge)	PWM method by power command	Bus voltage stablization PWM method

Output (AC: Grid-tied)

Grid connection type	Single-phase, 2-wire type (connected to single-phase, 3-wire type)
Conversion method	Voltage type current controller method
Rated output power *2	5500W
Rated AC voltage	240V
Nominal AC voltage range	AC211.2V-264V
Rated grid frequency/range	60Hz / 58.0Hz to 62.0Hz
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 *3
Rated output voltage	120±5V

Efficiency (Solar)

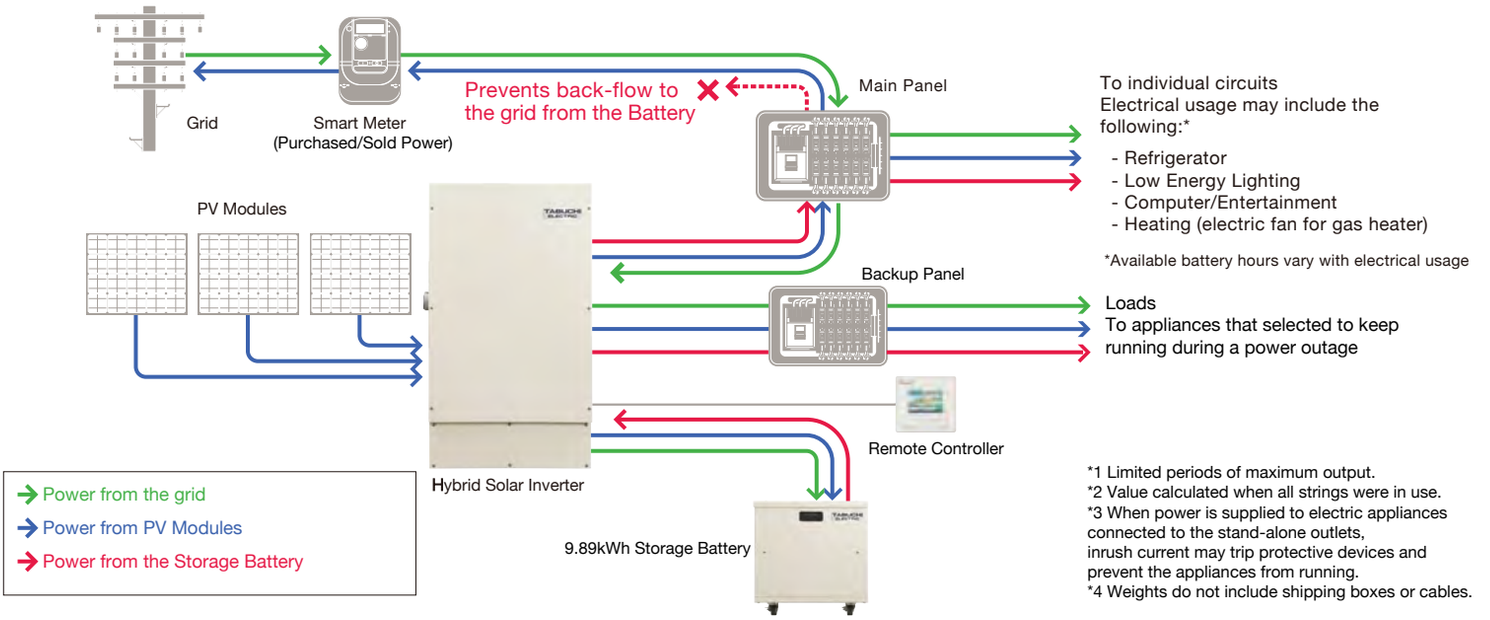
Max. efficiency	93.3% (DC300 V, 75% output)
CEC Efficiency	91.5%

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	76Kg (168lb)*4
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) *4
Operating temperature range	-20° C to + 40° C (Inverter)
Topology	High frequency isolated transformer method
Cooling concept	Active cooling (fan)
Enclosure Rating	Inverter = NEMA 3R, Battery = Indoor

Features

DC terminal	Terminal block (+,-)x4
AC terminal	Terminal block (U, O, W)
Stand-alone terminal	Terminal block (2 poles)
Grounding terminal	Terminal block (1 pole)
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



To individual circuits
Electrical usage may include the following:*

- Refrigerator
- Low Energy Lighting
- Computer/Entertainment
- Heating (electric fan for gas heater)

*Available battery hours vary with electrical usage

Loads
To appliances that selected to keep running during a power outage

*1 Limited periods of maximum output.
*2 Value calculated when all strings were in use.
*3 When power is supplied to electric appliances connected to the stand-alone outlets, inrush current may trip protective devices and prevent the appliances from running.
*4 Weights do not include shipping boxes or cables.

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