

TABUCHI ELECTRIC



Eco Intelligent Battery System (EIBS) EIBS16GU

Hybrid Solar Inverter & Lithium-Ion Storage Battery

All-in-One Solution includes:

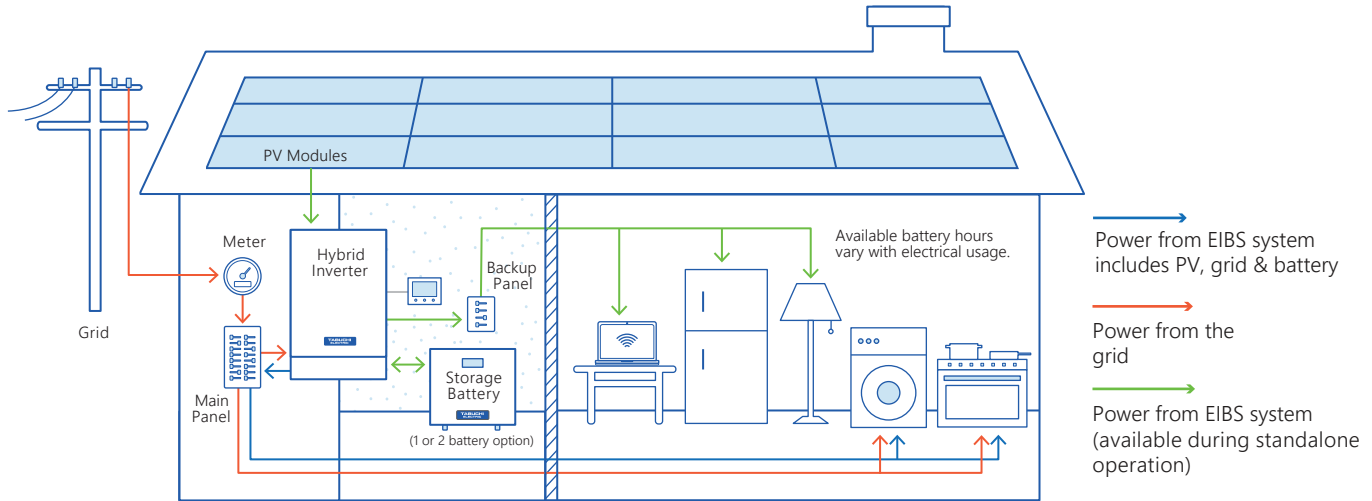
- Battery: 9.89 kWh Total Energy / 7.4 kWh Usable Energy
- Solar and battery control
- High efficiency DC-coupled system
- Built-in automatic transfer switch
- 3 PV string-level MPPTs
- Backup power for critical loads/appliances
- Complimentary solar, battery, and consumption monitoring

Optimized Energy Management Settings:

- Self-consumption
- Demand Charge
- Time-of-Use (TOU)
- Non-export available
- Home microgrid option



System Model: EIBS16GU
WWW.TABUCHI-US.COM



True hybrid all-in-one Solar + Storage system optimized for easy and efficient installation and energy management.

Hybrid Inverter & Battery Specifications

System Components

System Name: EIBS16GU

Inverter: THD-S55P3B-US

Battery: EOW-LB100-PNUS2

Input: DC (Photovoltaic)

Open-circuit input power per string	DC 600V
Max. usable input power per string	2500W
MPPT operating voltage range	DC 80 to 550V
Number of independent MPPTs	3
Max. operating input current per string	12A
Max. short-circuit PV input current	15A

Output: AC (Grid-tied)

Connection Type	Split phase 3-wire (L1, L2, N)
Nominal AC Power	5500W
Nominal AC voltage	AC 240V
Operating AC voltage range	AC 211.2V to 264V
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 (L, N)
Nominal output voltage	120V±5%

Charge/Discharge: DC (Battery)

	Grid-tied	Stand-alone
Number of batteries	1	1
Charge power	1.5kW	1.5kW
Discharge power	2.0kW	2.0kW
Available capacity	7.4kWh	7.4kWh

Efficiency

Max. efficiency	95.5%
CEC efficiency	94.5%

General Data

Inverter dimensions (WxHxD)	680x1200x250mm (26.8x47.2x9.8in)
Inverter weight	68kg (149 lbs)
Battery dimensions (WxHxD)	580x600x551.5mm (22.8x23.6x21.7in)
Battery weight	110kg (243lbs) per battery
Operating temperature range (Inverter)	-20°C to + 40°C (-4°F to + 104°F)
Inverter cooling	Active cooling (fan)
Enclosure rating	Inverter = NEMA3, Battery = Indoor

Standards and Certifications Compliance

Inverter	Compliant with requirements for: UL1741 SA/UL1699B/UL60950-1/CSA C22.2 No. 107.1, No. 60950-1/IEEE 1547.1/CEC-listed (Rule 21)/HECO-listed (Rule 14H)/FCC class B
Battery	UL 1973, CSA C22.2 No. 60950-1

TABUCHI ELECTRIC



Eco Intelligent Battery System - EIBS16GU2 Series EIBS16GU2 & EIBS16GU2 PLUS

Hybrid Solar Inverter & Lithium Ion Battery Storage System

All-in-One Solution includes:

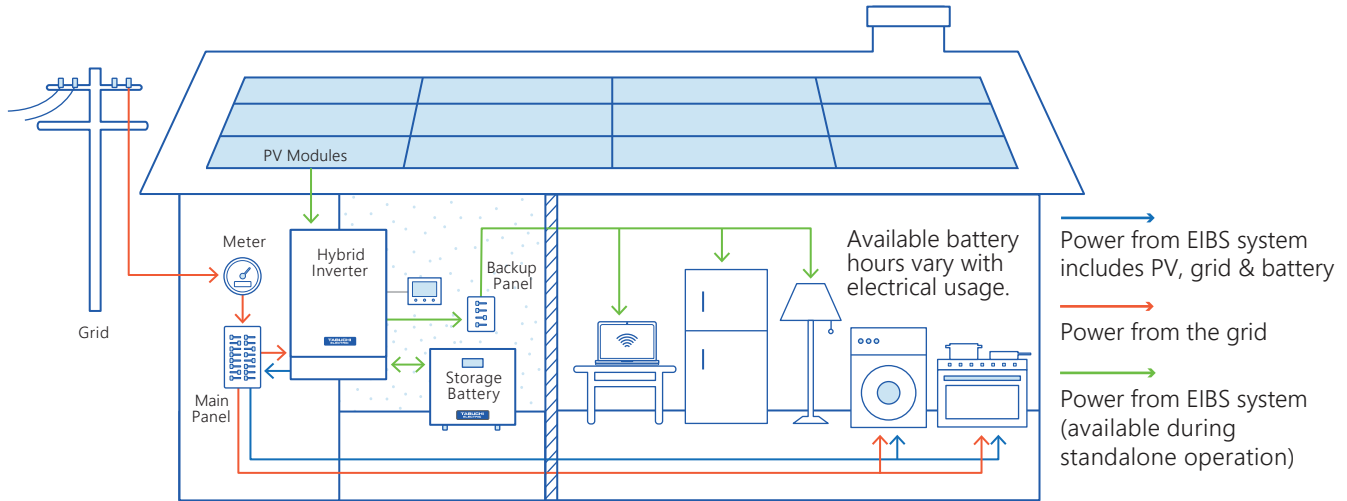
- Battery: 19.78 kWh Total Energy / 14.8 kWh Usable Energy
- Solar and battery control
- High efficiency DC-coupled system
- Built-in automatic transfer switch
- 3 PV string-level MPPTs
- Backup power for critical electrical loads/appliances
- Complimentary solar, battery, and consumption monitoring

Optimized Energy Management Settings:

- Self-consumption
- Demand Charge
- Time-of-Use (TOU)
- Non-export available
- Home microgrid option



System Model: EIBS16GU2/EIBS16GU2 PLUS
WWW.TABUCHI-US.COM



True hybrid all-in-one Solar + Storage system optimized for easy and efficient installation and energy management.

Hybrid Inverter & Battery Specifications

System Components:	EIBS16GU2	EIBS16GU2 PLUS
Inverter	THD-S55P3BB-US	THE-S55P3BB-USW
Battery	EOW-LB100-PNUS2 x 2	
Combiner Box	TOD-BCU-PNUS2	

Input: DC (Photovoltaic)

Open-circuit input power per string	DC 600V
Max. usable input power per string	2500W
MPPT operating voltage range	DC 80 to 550V
Number of independent MPPTs	3
Max. operating input current per string	12A
Max. short-circuit PV input current	15A

Output (AC: Grid-tied)

Connection Type	Split phase 3-wire (L1, L2, N)
Nominal AC Power	5500W
Nominal AC voltage	AC 240V
Operating AC voltage range	AC 211.2V to 264V
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)	EIBS16GU2	EIBS16GU2 PLUS
Connection Type	Single phase 2-wire (L, N)	Single phase 2-wire*1 (S1, S2)
Nominal output voltage	120V ±5%	240V ±5%

*1: External isolation transformer is required.

	EIBS16GU2		EIBS16GU2 PLUS	
	Grid-tied	Stand-alone	Grid-tied	Stand-alone
Number of batteries	2	2	2	2
Charge power	3.0kW	3.0kW	3.0kW	3.0kW
Discharge power	4.0kW	3.3kW	4.0kW	4.0kW
Available capacity	14.8kWh	14.8kWh	14.8kWh	14.8kWh

Efficiency

Max. efficiency	95.5%
CEC efficiency	94.5%

General Data

Inverter dimensions (WxHxD)	680x1200x250mm (26.8x47.2x9.8in)
Inverter weight	68kg (149 lbs)
Battery dimensions (WxHxD)	580x600x551.5mm (22.8x23.6x21.7in)
Battery weight	110kg (243lbs) per battery
Operating temperature range (Inverter)	-20°C to + 40°C (-4°F to + 104°F)
Inverter cooling	Active cooling (fan)
Enclosure rating	Inverter = NEMA3 Battery = Indoor

Standards and Certifications Compliance

Inverter	Compliant with requirements for: UL1741 SA/UL1699B/UL60950-1/CSA C22.2 No. 107.1, No. 60950-1/IEEE 1547.1/CEC-listed (Rule 21)/HECO-listed (Rule 14H)*2/FCC class B
Battery	UL 1773, CSA C22.2 No. 60950-1
System	ANSI/CAN/UL9540

*2: EIBS16GU2 only.