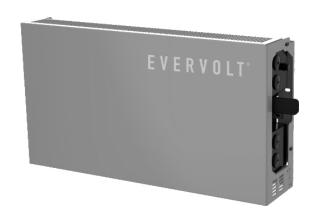
Panasonic

HYBRID INVERTER

PRELIMINARY

The EVERVOLT® Hybrid inverter is the heart of the EVERVOLT solar and home battery system and converts DC power from your solar panels to AC power used for powering home loads. Combines battery and solar PV inverter into one energy efficient unit for solar energy production, storage and use for residential applications.



Key Features



Connects solar PV array, battery system, home loads and grid power when used as part of a complete solar-plus-storage system



Compact lightweight design for easy handling, mounting and installation



Can be used with any brand of solar panels, including Panasonic EVERVOLT high efficiency PV modules



NEMA-4X rated and weatherproof design, can be safely installed indoors or outdoors



Integrates with EVERVOLT SmartBox¹ to provide intelligent load management, control up to six home loads to optimize energy consumption and prolong battery life



Allows up to 15.2kW of DC input² with three Maximum Power Point Trackers (MPPT) for higher yields and flexible design

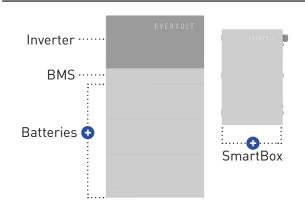


Integrated transmitter enables easy installation of rapid shutdown devices for safe PV array connections¹



Complete 12-year warranty covers product and labor when installed by a Panasonic Authorized installer

Complete EVERVOLT Home Battery



In the future, adding batteries and a SmartBox to the EVERVOLT Hybrid Inverter will enhance its capabilities by providing backup power.

¹ SmartBox is optional for non-backup applications. Installations done without SmartBox would require an additional accessory, the Smart Meter.

² Appropriate string sizing calculations must be done to determine the number of panels that can be connected to the MPPT channel for optimal MPPT operation.



Panasonic

HYBRID INVERTER

PRELIMINARY

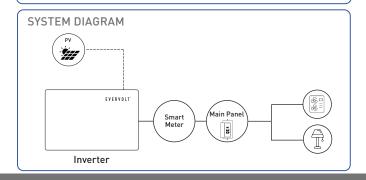
ELECTRICAL SPECIFICATIONS		
Model Number	EVHB-I7	
Nominal AC Power	7608W	
Maximum Apparent power	7608W at 240V	
Rated Grid Voltage	240V	
Nominal AC Frequency	60Hz	
Nominal AC Current	31.7A	
Displacement Power Factor	0.8	
Total Harmonic Distortion (THD)	< 3%	
(

SOLAR INPUT	
Maximum Power (DC)	15200W (200% oversizing)
Recommended PV Power [MPPT]	7600W
Maximum Input Voltage	550V
MPPT Voltage Range (DC)	90 - 500V
Minimum Start Voltage (DC)	120 V
Maximum Input Current (DC)	16A per string
Maximum Short Circuit Current (DC)	20A
No. of MPPTs / Strings per MPPT	3 / 1

EFFICIENCY	
CEC weighted efficiency	97.50%
Maximum inverter efficiency	98.00%

MAX/MIN NUMBER OF EVERVOLT SOLAR PANELS

(PER STRING) -4 to 104°F (-20 to 40°C) Temperature range Max: 10 panels EVPV430HK2 Min: 3 panels Max: 10 panels EVPV420HK2 Min: 3 panels Max: 10 panels EVPV410HK Min: 3 panels Max: 10 panels EVPV400HK Min: 3 panels Max: 10 panels EVPV390HK Min: 3 panels Max: 11 panels EVPV380 Min: 4 panels Max: 11 panels EVPV370PK Min: 4 panels Max: 11 panels EVPV360PK Min: 4 panels Max: 11 panels EVPV350PK Min: 4 panels

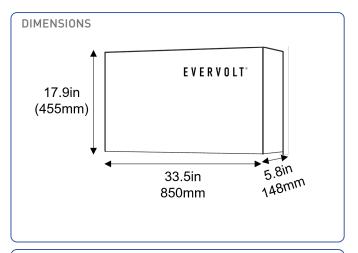


STANDARDS & CERTIFICATIONS		
Inverter Certifications	UL1741, UL1741 SA, UL1741CRD PCS, UL1699B, CSA - C22.2 No. 107.1-01, Canadian AFCI according to T.I.L. M-07	
Emissions	FCC Part 15 Class B	
Grid Connection Standards	IEEE1547, Rule 21, Rule14 (HI)	
(

OTHER SPECIFICATIONS	
Typical Noise Level	< 30dB
Overvoltage Category	IV (electric supply side), II (PV side)
Inverter Communication Interface	RS485, CAN, WIFI, Dry Contact
Battery Communication Interface	RS485 / CAN2.0
Installation Method	Wall mounted
Maximum Altitude	9843 ft (3000m)
Warranty	12 years

MECHANICAL SPECIFICATIONS	
Dimensions (HxWxD)	33.5x15.7x5.8in (850x400x148mm)
Weight	75lb (34kg)
Protection Rating	NEMA 4X
Environment	Indoor(garage) and Outdoor rated
Operating Temperature	-13 to 140°F (-25 to 60°C)
Storage Temperature	-13 to 167°F (-25 to 75°C)
Relative humidity	0 to 95%
Cooling	Natural convection
(

- Built-in APSmart transmitter.
- For PV only installation, EVERVOLT Hybrid Inverter and PV only accessory box are required.



ACCESSORIES

- Smart Meter: EV-SM
- Inverter Accessory: EVHB-I7-ACCE