



Certificate of Compliance

Certificate: 80161154

Master Contract: 605129

Project: 80178482

Date Issued: 2023-08-03

Issued To: PANASONIC CORPORATION OF NORTH AMERICA
2 Riverfront Plaza
Newark, New Jersey 07102
United States

Attention: Tom Juliano

The products listed below are eligible to bear the CSA Mark shown with adjacent indicators 'C' and 'US' for Canada and US or with adjacent indicator 'US' for US only or without either indicator for Canada only.



Issued by: *Judy Guo*
Judy Guo

PRODUCTS

CLASS - C370108- ELECTRICAL ENERGY STORAGE SYSTEMS

CLASS - C370188 - ELECTRICAL ENERGY STORAGE SYSTEMS Certified to US Standard

Li-ion Battery Energy Storage System (Pre-Engineered of Matched Component type), models EverVolt Energy Storage System series, consist of EverVolt Hybrid Inverter or EverVolt AC Inverter inverter series combined with EverVolt Battery series, the detailed model combination and ratings for the energy storage system were indicated as below:



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Table 1 ESS combinations and the Input Ratings for ESS with energy storage inverter EverVolt Hybrid Inverter series:

EverVolt Energy Storage System series		ESS PV Input Ratings		
Inverter Model No.	Battery System Model No.	Max Current, A	Voltage Range, V	Input Power, W
EVHB-I7	EV-X10	16*3	235~500	11400
EVHB-I7	EV-X15	16*3	235~500	11400
EVHB-I7	EV-X20	16*3	235~500	11400
EVHB-I6	EV-X10	16*2	278~500	9000
EVHB-I6	EV-X15	16*2	278~500	9000
EVHB-I6	EV-X20	16*2	278~500	9000
EVHB-I5	EV-X10	16*2	232~500	7500
EVHB-I5	EV-X15	16*2	232~500	7500
EVHB-I5	EV-X20	16*2	232~500	7500
EVHB-I3	EV-X10	16*2	176~500	5700
EVHB-I3	EV-X15	16*2	176~500	5700
EVHB-I3	EV-X20	16*2	176~500	5700

Note: EverVolt Energy Storage System Series ESS may be provided with or without Backup Interface(BI), model EV-BI, EV-SB, refer to construction part for the BI model ratings.

Table 2 ESS Combinations and the Output Ratings for ESS with energy storage inverter EverVolt Hybrid Inverter series:

EverVolt series Energy Storage System		ESS AC Output Rating							Energy, kWh
Inverter Model No.	Battery System Model No.	Max Current, A	Voltage Range, Vac	Output Power, VA	Input Phase	Frequency, Hz	Duty Cycle	Max Short Circuit, A	
EVHB-I7	EV-X10	31.7	120/240	7608	Single phase	60	-	48	10
EVHB-I7	EV-X15	31.7	120/240	7608	Single phase	60	-	48	15
EVHB-I7	EV-X20	31.7	120/240	7608	Single phase	60	-	48	20
EVHB-I6	EV-X10	25	120/240	6000	Single phase	60	-	48	10
EVHB-I6	EV-X15	25	120/240	6000	Single phase	60	-	48	15



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EVHB-I6	EV-X20	25	120/240	6000	Single phase	60	-	48	20
EVHB-I5	EV-X10	20.9	120/240	5016	Single phase	60	-	48	10
EVHB-I5	EV-X15	20.9	120/240	5016	Single phase	60	-	48	15
EVHB-I5	EV-X20	20.9	120/240	5016	Single phase	60	-	48	20
EVHB-I3	EV-X10	15.9	120/240	3816	Single phase	60	-	48	10
EVHB-I3	EV-X15	15.9	120/240	3816	Single phase	60	-	48	15
EVHB-I3	EV-X20	15.9	120/240	3816	Single phase	60	-	48	20

Note: EverVolt Energy Storage System Series ESS may be provided with or without Backup Interface(BI), model EV-BI, EV-SB, refer to construction part for the BI model ratings.

Table 3 ESS Combinations and the Input Ratings for ESS with energy storage inverter EverVolt AC Inverter series:

EverVolt Energy Storage System series		ESS Grid Input Ratings				
Inverter Model No.	Battery System Model No.	Max Current, A	Voltage Range, V	Input Power, VA	Input Phase	Frequency, Hz
EVAC-I7	EV-X10	31.7	120/240	7608	Split Phase	60
EVAC-I7	EV-X15	31.7	120/240	7608	Split Phase	60
EVAC-I7	EV-X20	31.7	120/240	7608	Split Phase	60
EVAC-I6	EV-X10	25	120/240	6000	Split Phase	60
EVAC-I6	EV-X15	25	120/240	6000	Split Phase	60
EVAC-I6	EV-X20	25	120/240	6000	Split Phase	60
EVAC-I5	EV-X10	20.9	120/240	5016	Split Phase	60
EVAC-I5	EV-X15	20.9	120/240	5016	Split Phase	60
EVAC-I5	EV-X20	20.9	120/240	5016	Split Phase	60
EVAC-I3	EV-X10	15.9	120/240	3816	Split Phase	60
EVAC-I3	EV-X15	15.9	120/240	3816	Split Phase	60
EVAC-I3	EV-X20	15.9	120/240	3816	Split Phase	60

Note: EverVolt Energy Storage System Series ESS may be provided with or without Backup Interface(BI), model EV-BI, EV-SB refer to construction part for the BI model ratings



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Table 4 ESS Combinations and the Output Ratings for ESS with energy storage inverter EverVolt AC Inverter series:

EverVolt Energy Storage System series		ESS AC Output Ratings							Energy, kWh
Inverter Series: EverVolt AC Inverter	Battery System Model No.	Max Current, A	Voltage Range, Vac	Output Power, VA	Output Phase	Frequency, Hz	Duty Cycle	Max Short Circuit, A	
EVAC-I7	EV-X10	31.7	120/240	7608	Split phase	60	-	48	10
EVAC-I7	EV-X15	31.7	120/240	7608	Split phase	60	-	48	15
EVAC-I7	EV-X20	31.7	120/240	7608	Split phase	60	-	48	20
EVAC-I6	EV-X10	25	120/240	6000	Split phase	60	-	48	10
EVAC-I6	EV-X15	25	120/240	6000	Split phase	60	-	48	15
EVAC-I6	EV-X20	25	120/240	6000	Split phase	60	-	48	20
EVAC-I5	EV-X10	20.9	120/240	5016	Split phase	60	-	48	10
EVAC-I5	EV-X15	20.9	120/240	5016	Split phase	60	-	48	15
EVAC-I5	EV-X20	20.9	120/240	5016	Split phase	60	-	48	20
EVAC-I3	EV-X10	15.9	120/240	3816	Split phase	60	-	48	10
EVAC-I3	EV-X15	15.9	120/240	3816	Split phase	60	-	48	15
EVAC-I3	EV-X20	15.9	120/240	3816	Split phase	60	-	48	20

Note: EverVolt Energy Storage System Series ESS may be provided with or without Backup Interface(BI), model EV-BI, EV-SB refer to construction part for the BI model ratings

Table 5: General Ratings for EverVolt Series:

EverVolt Energy Storage System	
Operating Temperature, °C	Inverter: -20~60; Battery System: 0~53(Charge); -10~53(Discharge)



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Auxiliary Rating,	-
Seismic Rating	-
Enclosure Environmental Ratings	Inverter: Type 4X; Battery System: IP65
Weight, Kg	Inverter: 34
	Battery System 14.5+54*n(where n can be 2, 3 or 4)
Suppression System	-
Technology	Li-ion
Special Environmental Ratings and Limitations	Indoor/outdoor

Table 6: EverVolt Series Energy Storage System:

Model Number	Inverter Model Number	Battery System Model No.
EVHB-I7-X10	EVHB-I7	EV-X10
EVHB-I7-X15	EVHB-I7	EV-X15
EVHB-I7-X20	EVHB-I7	EV-X20
EVHB-I6-X10	EVHB-I6	EV-X10
EVHB-I6-X15	EVHB-I6	EV-X15
EVHB-I6-X20	EVHB-I6	EV-X20
EVHB-I5-X10	EVHB-I5	EV-X10
EVHB-I5-X15	EVHB-I5	EV-X15
EVHB-I5-X20	EVHB-I5	EV-X20
EVHB-I3-X10	EVHB-I3	EV-X10
EVHB-I3-X15	EVHB-I3	EV-X15
EVHB-I3-X20	EVHB-I3	EV-X20
EVAC-I7-X10	EVAC-I7	EV-X10
EVAC-I7-X15	EVAC-I7	EV-X15
EVAC-I7-X20	EVAC-I7	EV-X20
EVAC-I6-X10	EVAC-I6	EV-X10
EVAC-I6-X15	EVAC-I6	EV-X15
EVAC-I6-X20	EVAC-I6	EV-X20
EVAC-I5-X10	EVAC-I5	EV-X10
EVAC-I5-X15	EVAC-I5	EV-X15
EVAC-I5-X20	EVAC-I5	EV-X20
EVAC-I3-X10	EVAC-I3	EV-X10
EVAC-I3-X15	EVAC-I3	EV-X15
EVAC-I3-X20	EVAC-I3	EV-X20



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Note:

1. Inverter models EVAC-I7, EVAC-I6, EVAC-I5 and EVAC-I3 are pure energy storage inverters, and have the same ratings with EVHB-I7, EVHB-I6, EVHB-I5 and EVHB-I3 except for PV input.
2. The operating parameter such as voltage, current, temperature, environmental condition, etc of ESS are not determined during this investigation. Battery System and PCS integrate into a ESS need to use within the operating parameter of individual component rating. Installation of ESS shall evaluate all component used within the operating parameter used during certification of PCS and Battery system.
3. The acceptability of grid support utility interactive inverters shall be determined by the local electric utility.
4. The ESS installation was not evaluated. Installation shall be implemented following the subassembly manufacturers' installation manual, national and local codes.
5. The system was intended for residential use without arc flash risk considered, and is not designed for used in seismic or outdoor coastal regions.
6. The AC circuit breaker connected in the grid port will be considered by the end product user when installation.

APPLICABLE REQUIREMENTS

ANSI/CAN/UL 9540:2020 Energy Storage Systems and Equipment, Ed 2 with Rev Apr 9, 2021

MARKINGS

See CSA report.

Notes:

Products certified under Class C370108, C370188 have been certified under CSA's ISO/IEC 17065 accreditation with the Standards Council of Canada (SCC). www.scc.ca

