

BayWa r.e. Solar Systems Inc.

4703-101 Street NW, T6E 5C6 Edmonton, AB Tel: +1 844 851 2390 solardistribution@baywa-re.ca

Enphase Enpower

The Enphase Enpower[™] smart switch connects the home to grid power, the Encharge storage system, and solar PV. It provides microgrid interconnection device (MID) functionality by automatically detecting and seamlessly transitioning the home energy system from grid power to backup power in the event of a grid failure. It consolidates interconnection equipment into a single enclosure and streamlines grid independent capabilities of PV and storage installations by providing a consistent, pre-wired solution for residential applications.



Reliable

- Durable NEMA type 3R enclosure
- Ten-year limited warranty

Smart

- · Controls safe connectivity to the grid
- · Automatically detects grid outages
- Provides seamless transition to backup

Simple

- Connects to the load or service equipment¹ side of the main load panel
- Centered mounting brackets support single stud mounting
- Supports conduit entry from the bottom, bottom left side, and bottom right side
- Supports whole home and partial home backup and subpanel backup
- Up to 200A main breaker support
- Includes neutral-forming transformer for split phase 120/240V backup operation

1. Enpower is not suitable for use as service equipment in Canada.



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MODEL NUMBER		
EP200G101-M240US00	Enphase Enpower smart switch with neutral-forming transformer (NFT), Micr breakers, and screws. Streamlines grid-independent capabilities of PV and st	
ACCESSORIES and REPLACEMENT PARTS		
KA-E3-PCBA-ENS	Replacement Enpower controller printed circuit board	
EP200G-NA-HD-200A	Eaton type BR circuit breaker hold-down screw kit, BRHDK125	
P200G-HNDL-R1	Enpower installation handle kit (order separately)	
Circuit breakers (as needed) ^{2, 3}	Not included, must order separately:	
JRK-100A-2P-240V	Main breaker, 2 pole, 100A, 25kAIC, CSR2100	
RK-125A-2P-240V	• Main breaker, 2 pole, 125A, 25kAIC, CSR2125N	
8RK-150A-2P-240V	Main breaker, 2 pole, 150A, 25kAIC, CSR2150N	
BRK-175A-2P-240V	• Main breaker, 2 pole, 175A, 25kAIC, CSR2175N	
BRK-200A-2P-240V	Main breaker, 2 pole, 200A, 25kAIC, CSR2200N	
3RK-20A-2P-240V-B	Circuit breaker, 2 pole, 20A, 10kAIC, BR220B	
RK-30A-2P-240V	 Circuit breaker, 2 pole, 30A, 10kAIC, BR230B 	
3RK-40A-2P-240V	Circuit breaker, 2 pole, 40A, 10kAIC, BR240B	
3RK-60A-2P-240V	Circuit breaker, 2 pole, 60A, 10kAIC, BR260	
BRK-80A-2P-240V	Circuit breaker, 2 pole, 80A, 10kAIC, BR280	
ELECTRICAL SPECIFICATIONS		
Assembly rating	Continuous operation at 100% of its rating	
Nominal voltage / range (L-L)	240 VAC / 100 - 310 VAC	
/oltage measurement accuracy	±1% V nominal (±1.2V L-N and ±2.4V L-L)	
Auxiliary contact for load control and excess PV control	24V, 1A	
Nominal frequency / range	60 Hz / 56 - 63 Hz	
	±0.1 Hz	
Frequency measurement accuracy		
Maximum continuous current rating	160A	
Maximum input overcurrent protection device	200A	
Aaximum output overcurrent protection device	200A	
Maximum overcurrent protection device rating for storage branch circuit ⁴	80A	
<i>N</i> aximum overcurrent protection device rating for PV combiner branch circuit ⁴	80A	
Neutral Forming Transformer (NFT)	 Breaker rating (pre-installed): 40A between L1 and Neutral; 40A between L2 and Neutral Continuous rated power: 3600VA Maximum continuous unbalance current: 30A @ 120V Peak rated power: 8800VA for 30 seconds Peak unbalanced current: 80A @ 120V for 30 seconds 	
MECHANICAL DATA		
Dimensions (WxHxD)	50cm x 91.6cm x 24.6cm (19.7 in x 36 in x 9.7 in)	
Veight	38.5 kg (85 lbs)	
Ambient temperature range	-40° C to +50° C (-40° F to 122° F)	
Cooling	Natural convection, plus heat shield	
Enclosure environmental rating	Outdoor, NEMA type 3R, polycarbonate construction	
Altitude	To 2500 meters (8200 feet)	
	10 2000 meters (0200 reet)	
	Main lung and heatron last turn	0/41.1.4.10
Connections All lugs are rated to 90C)	 Main lugs and backup load lugs CSR breakers BR breakers (wire provided) AC combiner lugs, Encharge lugs, and generator lugs Neutral (large lugs) 	Cu/AI: 1 AWG - 300 KCM Cu/AI: 2 AWG - 300 KCM 6 AWG 14 AWG - 2 AWG Cu/AI: 6 AWG - 300 KCMI
Neutral and ground bars	Large holes (5/16-24 UNF) Small holes (10-32 UNF)	14 AWG - 1/0 AWG 14 AWG - 6 AWG
COMPLIANCE		
Compliance	UL 1741, UL 1741 SA, UL 1741 PCS, UL1998, UL869A5, UL675, UL5085, UL50E	5

CSA 22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003, AC156.

Compatible with BRHDK125 Hold-Down Kit to comply with 2017 NEC 710.15E for back-fed circuit breakers.
 The Enpower is rated 22 kAIC
 Not included. Installer must provide properly rated breaker per circuit breaker list above.

5. Sections from these standards were used during the safety evaluation and included in the UL 1741 listing.

To learn more about Enphase offerings, visit enphase.com

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