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.

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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 entrance 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 120/240 V backup operation

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MODEL NUMBER	
EP200G101-M240US00	Enphase Enpower smart switch with neutral-forming transformer (NFT), Microgrid Interconnect Device (MID), breakers, and screws. Streamlines grid-independent capabilities of PV and storage installations.
ACCESSORIES and **REPLACEMENT PARTS**	
XA-E3-PCBA-ENS	Replacement Enpower controller printed circuit board
Circuit breakers (as needed)[1] BRK-100A-2P-240V BRK-125A-2P-240V BRK-150A-2P-240V BRK-175A-2P-240V BRK-200A-2P-240V BRK-20A-2P-240V BRK-30A-2P-240V BRK-40A-2P-240V BRK-60A-2P-240V BRK-80A-2P-240V	Not included, must be ordered separately: • Main breaker, 2 pole, 100A, 25kAIC, CSR2100N • Main breaker, 2 pole, 125A, 25kAIC, CSR2125N • Main breaker, 2 pole, 150A, 25kAIC, CSR2150N • Main breaker, 2 pole, 175A, 25kAIC, CSR2175N • Main breaker, 2 pole, 200A, 25kAIC, CSR2200N • Circuit breaker, 2 pole, 20A, 10kAIC, BR220B • Circuit breaker, 2 pole, 30A, 10kAIC, BR230B • Circuit breaker, 2 pole, 40A, 10kAIC, BR240B • Circuit breaker, 2 pole, 60A, 10kAIC, BR260 • Circuit breaker, 2 pole, 80A, 10kAIC, BR280
ELECTRICAL SPECIFICATIONS	
Assembly rating	Continuous operation at 100% of its rating
System voltage	120/240 VAC, 60 Hz
Maximum continuous current rating	160 A
Maximum output overcurrent protection device	200 A
Maximum input overcurrent protection device	200A
Maximum overcurrent protection device rating for storage branch circuit[2]	80A
Maximum overcurrent protection device rating for PV combiner branch circuit[2]	80A
Neutral Forming Transformer (NFT)	Breaker rating (pre-installed): 40A between L1 and Neutral; 40A between L2 and Neutral Continuous rated power: 3600W Maximum continuous unbalance current: 30A @ 120V Peak rated power: 8800W 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)
Weight	37.2 kg (82 lbs)
Ambient temperature range	-40° C to +50° C (-40° to 122° F)
Cooling	Natural convection, plus heat shield
Enclosure environmental rating	Outdoor, NEMA type 3R, polycarbonate construction
Wire sizes	• Grid input : Up to AWG 4/0 Cu/Al conductors • Load panel : Up to AWG 4/0 Cu/Al conductors • Main load panel output : Up to AWG 4/0 Cu/Al conductors • Generator input : Up to AWG 14 to AWG 6 Cu conductors • Encharge input : Up to AWG 14 to AWG 6 Cu conductors • PV Combiner input: Up to AWG 14 to AWG 6 Cu conductors • Ground : Up to AWG 14 to AWG 1/0 Cu conductors • Neutral : Up to AWG 14 to AWG 4/0 Cu conductors Always follow local electrical code requirements for conductor sizing.
Altitude	To 2500 meters (8200 feet)
COMPLIANCE	
Compliance (pending)	UL 1741, UL 1741 SA, UL1998, CSA 22.2 No. 107.1, 47 CFR, Part 15, Class B, ICES 003, AC156.

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

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To learn more about Enphase offerings, visit **enphase.com**

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