

## 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 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.
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## ACCESSORIES and REPLACEMENT PARTS

XA-E3-PCBA-ENS	Replacement Enpower controller printed circuit board
Circuit breakers (as needed) <sup>1,2</sup>	Not included, must order separately:
BRK-100A-2P-240V	• Main breaker, 2 pole, 100A, 25kAIC, CSR2100N or CSR2100
BRK-125A-2P-240V	• Main breaker, 2 pole, 125A, 25kAIC, CSR2125N
BRK-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
BRK-20A-2P-240V-B	• Circuit breaker, 2 pole, 20A, 10kAIC, BR220B
BRK-30A-2P-240V	• Circuit breaker, 2 pole, 30A, 10kAIC, BR230B
BRK-40A-2P-240V	• Circuit breaker, 2 pole, 40A, 10kAIC, BR240B
BRK-60A-2P-240V	• Circuit breaker, 2 pole, 60A, 10kAIC, BR260
BRK-80A-2P-240V	• Circuit breaker, 2 pole, 80A, 10kAIC, BR280
EP200G-HNDL-R1	Enpower installation handle kit (order separately)

## ELECTRICAL SPECIFICATIONS

Assembly rating	Continuous operation at 100% of its rating
Nominal voltage / range (L-L)	240 VAC / 100 - 310 VAC
Voltage measurement accuracy	±1% V nominal (±1.2V L-N and ±2.4V L-L)
Nominal frequency / range	60 Hz / 56 - 63 Hz
Frequency measurement accuracy	±0.1 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 <sup>3</sup>	80A
Maximum overcurrent protection device rating for PV combiner branch circuit <sup>3</sup>	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.
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1. Compatible with BRHDK125 Hold-Down Kit to comply with 2017 NEC 710.15E for back-fed circuit breakers.
2. The kAIC of Enpower is the same as the kAIC of the main breaker being installed as listed.
3. Not included. Installer must provide properly rated breaker per circuit breaker list above.

To learn more about Enphase offerings, visit [enphase.com](http://enphase.com)