

Enphase Enpower

The **Enphase Enpower™** smart switch, part of the Enphase Ensemble™ energy management technology, 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. Along with storage and generator input circuits, it offers Microgrid Interconnect Device (MID) functionality and a Eaton BR series busbar assembly.



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 circuit² 80A

Maximum overcurrent protection device rating for PV combiner branch circuit² 80A

NFT Breaker rating (pre-installed) 40A between L1 and Neutral; 40A between L2 and Neutral

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 This product will comply with all the required regulatory certifications in the North American markets before launch. Details will be provided in the final data sheet.

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.

To learn more about Enphase offerings, visit enphase.com