



IQ Load Controller

The IQ Load Controller, when used in conjunction with the IQ System Controller, enables control of up to two loads running 240 VAC L-L or shedding up to two solar circuits when operating in an off-grid mode with the Enphase Energy System.

The IQ Load Controller can also be used to control four loads running 120 VAC L-L. Up to two IQ Load Controllers can be integrated with each IQ System Controller on a site.



IQ Series Microinverters

The high-powered smart grid-ready IQ Series Microinverters (IQ6, IQ7, and IQ8 Series) dramatically simplify the installation process.



IQ System Controller

Provides microgrid interconnection device (MID) functionality by automatically detecting grid failures and seamlessly transitioning the home energy system from grid power to backup power.



IQ Battery

The Enphase IQ Battery is an all-in-one AC-coupled storage system that is reliable, smart, simple, and safe. It provides backup capability, and installers can quickly design the right system size to meet the needs of both new and retrofit solar customers.



IQ Combiner

Consolidates interconnection equipment into a single enclosure and streamlines IQ Series Microinverters and IQ Gateway installation by providing a consistent, pre-wired solution for residential applications.

Powerful

- Compatible with IQ6, IQ7, IQ8, and M Series Microinverters
- Helps prioritize essential appliances during a grid outage to optimize energy consumption and prolong battery life
- Choose from three load control modes for flexibility or manually control loads from the Enphase App

Simple

- A complete solution for use with the IQ System Controller's load control feature
- DIN rail mounted components enable easy installation and servicing
- Easy configuration via the Enphase App

Reliable

- Designed for indoor or outdoor installations
- 5-year limited warranty



5-year limited warranty



Enphase IQ Load Controller

MODEL NUMBER	EP-NA-LK02-040
EP-NA-LK02-040	IQ Load Controller for use with IQ System Controller's auxiliary contacts to shed non-essential loads or M Series and IQ Series Microinverters
INPUT DATA	
DC power supply input voltage	120 VAC
DC power supply input current rating	12 A
CAPACITY	
Total loads controlled	Two loads running at 240 VAC or four loads at 120 VAC
VOLTAGE RATING	
Load circuits	240/120 VAC, 60 Hz
PV circuits	240 VAC, 60 Hz
CURRENT RATING	
Maximum current rating	<ul style="list-style-type: none">• 36 A resistive/25 A inductive/3HP with 45 A OCPD for dedicated load circuits• 32 A resistive/25 A inductive/3HP with 40 A OCPD for branch circuits supplying more than one load
MECHANICAL DATA	
Ambient temperature range	-25°C to 40°C (-13°F to 104°F)
Dimensions (W × H × D)	12.58 in × 14.58 in × 5.96 in
Weight	3 kg (6.61 lb)
Cooling	Natural convection
Enclosure	Outdoor, NEMA type 4X, polycarbonate construction
WIRE SIZES	
Line/Load power terminals Coil terminals	<ul style="list-style-type: none">• Torque 2.5 N m (22 lb-in)• Torque 1.2 N m (11 lb-in)
Wire gauge <ul style="list-style-type: none">• Power terminals• Wire gauge coil terminals	14 AWG–8 AWG 18 AWG–16 AWG
Power supply <ul style="list-style-type: none">• 120 V L-N input terminals• 24 V V+/V- output terminals	14 AWG–12 AWG 18 AWG–16 AWG
Ground terminal block	24 AWG–6 AWG
Neutral terminal block	24 AWG–6 AWG
COMPLIANCE	
Compliance	UL1741
WARRANTY	
Limited warranty	5-year
COMPATIBILITY	
IQ System Controller	IQ System Controller (EP200G101-M240US00) IQ System Controller 2 (EP200G101-M240US01 and EP200G-SC2-RSD-KIT) IQ System Controller 3/3G (SC200D111C240US01 and SC200G111C240US01)

Revision history

REVISION	DATE	DESCRIPTION
DSH-00022-2.0	May 2024	Updated the UL smart mark.
DSH-00022-1.0	July 2023	Updated to new Enphase template.
Previous releases.		