IQ Battery 5P with FlexPhase

The IQ Battery 5P with FlexPhase is an all-in-one AC-coupled system that is powerful, reliable, simple, and safe. The battery can be flexibly used in both single-phase and three-phase applications. It has a total usable energy capacity of 5.0 kWh and includes six embedded IQ8T-BAT Microinverters providing up to 3.84 kVA continuous power in single-phase configuration and 1.28 kVA continuous power per phase in three-phase configuration.

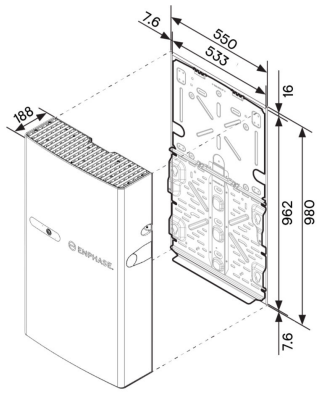


Enphase 15 year limited warranty

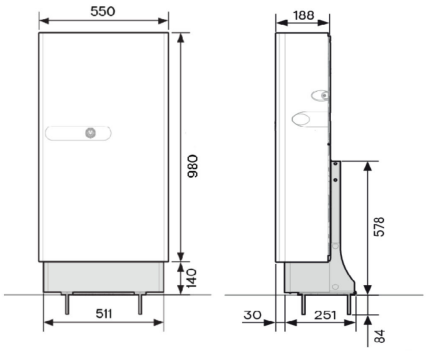
CE

Key specifications	Single-phase	Three-phase
Rated (continuous) output power[1]	Up to 3.84 kVA	Up to 3.84 kVA (1.28 kVA per phase)
Rated output current	Up to 16.7 A	Up to 16.7 A (5.56 A per phase)
Nominal AC voltage	230 V_{L-N}	230 V_{L-N}, 400 V_{L-L}
Nominal frequency	50 Hz	
Usable capacity	5.0 kWh	
Ambient operating temperature range	–20°C to 55°C	
Storage type (chemistry)	Lithium iron phosphate (LFP)	
Mounting	Wall-mount/pedestal-mount	

Dimensions in mm



Wall-mounted



Floor-mounted with pedestal

Powerful

- Provides continuous power of up to 3.84 kVA (single-phase) or 1.28 kVA per phase (three-phase)
- Includes six IQ8T-BAT Microinverters for reliable performance with isolated inverter topology

Reliable

- 15-year limited warranty
- Passive cooling - no moving parts
- Uses wired control communication
- Remote software and firmware updates

Simple

- AC-coupled system for fast installation and commissioning
- Supports Self-Consumption, Full Backup, time-of-use (TOU) modes, and is VPP Ready.
- CEC listed product and battery rebate approved
- Monitor and control via the Enphase App
- Field replaceable components

Safe

- Evaluated to UL 9540A, the highest industry standard for battery safety
- Lithium Iron Phosphate (LFP) chemistry for safety and longevity

[1] There are multiple models. Refer to the following page for model-specific ratings.

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Product details	IQ Battery 5P with FlexPhase
Order code	IQBATTERY-5P-3P-INT
Description	The IQ Battery 5P with FlexPhase is an AC-coupled battery (convertible between single-phase and three-phase)[2] with integrated IQ8T-BAT Microinverters and a battery management system (BMS) with battery controller

Output	Single-phase				
Model name[3]	IQBATTERY-5P-3P-INT-X.XX-1P				
X.XX[3]	1.65	2.50	3.00	3.68	3.84
Rated (continuous) output apparent power	1.65 kVA	2.50 kVA	3.00 kVA	3.68 kVA	3.84 kVA
Rated output current	7.17 A	10.87 A	13.04 A	16 A	16.7 A
Peak output current (10 seconds, 3 seconds)[4]	11.5 A, 14.3 A	17.4 A, 21.7 A	20.9 A, 26.1 A	25.6 A, 32 A	26.7 A, 33.4 A
Nominal AC voltage	230 V_{L-N}				
Nominal AC voltage range	211–264 V_{L-N}				

Output	Three-phase				
Model name[5]	IQBATTERY-5P-3P-INT-X.XX-3P				
X.XX[5]	1.84	2.50	3.00	3.68	3.84
Rated (continuous) output apparent power	1.84 kVA	2.50 kVA	3.00 kVA	3.68 kVA	3.84 kVA
Per phase rated (continuous) output apparent power	0.61 kVA	0.83 kVA	1 kVA	1.23 kVA	1.28 kVA
Per phase rated output current	2.67 A	3.62 A	4.35 A	5.33 A	5.56 A
Per phase peak output current (10 seconds, 3 seconds)[6]	4.27 A, 5.33 A	5.8 A, 7.23 A	6.97 A, 8.7 A	8.53 A, 10.67 A	8.9 A, 11.13 A
Nominal AC voltage	400 V_{L-L}				
Nominal AC voltage range	366 V_{L-L}–457 V_{L-L}				

Output	
Nominal frequency	50 Hz
Nominal frequency range	47 Hz–53 Hz
Power factor, grid-tied	0.8 leading ... 0.8 lagging
Power factor, backup	1.0 leading ... 1.0 lagging
AC round-trip efficiency[7]	90%
Operating modes	Supports Self-Consumption, Full Backup[8], Time-of-Use (TOU) modes, and is VPP Ready[9]

Battery module	
Usable capacity[10]	5.0 kWh
DC round-trip efficiency[11]	96%

[2] Factory default configuration is set to single-phase. To switch to a three-phase configuration, refer to the instructions provided in the quick installation guide (QIG).
[3] In single-phase the model names would be IQBATTERY-5P-3P-INT-1.65-1P, IQBATTERY-5P-3P-INT-2.50-1P, IQBATTERY-5P-3P-INT-3.00-1P, IQBATTERY-5P-3P-INT-3.68-1P, and IQBATTERY-5P-3P-INT-3.84-1P.
[4] During the backup operation.
[5] The model names in three-phase are IQBATTERY-5P-3P-INT-1.84-3P, IQBATTERY-5P-3P-INT-2.50-3P, IQBATTERY-5P-3P-INT-3.00-3P, IQBATTERY-5P-3P-INT-3.68-3P, and IQBATTERY-5P-3P-INT-3.84-3P.
[6] During the backup operation.
[7] AC to the battery to AC at 50% power rating at 25°C (at the beginning of life). Actual round-trip efficiencies can vary based on ambient temperatures, load patterns, and other external factors.
[8] IQ System Controller 3 INT is required for backup operation.
[9] Supports internet connectivity and remote control by third-party VPP operators via API.
[10] The battery's usable capacity supports loads and turns PV on (when off-grid), in normal daily operation. The usable capacity includes a safety-critical limit of 2% that safeguards the customer's asset in case of a long-duration grid outage. An additional 3% capacity is maintained for battery electronic sustenance during the night. Refer to https://link.enphase.com/iq-battery-usable-capacity-tech-brief for more information.

Battery module	
Nominal DC voltage/Operating DC voltage range	76.8 V/60 V–87 V
Ambient operating temperature (charging)[12]	-20°C to 50°C
Ambient operating temperature (discharging)[13]	-20°C to 55°C
Chemistry	Lithium iron phosphate (LFP)

Mechanical and electrical data	
Dimensions (H × W × D)	980 mm × 550 mm × 188 mm
Lifting weight	69.5 kg
Total installed weight	83 kg
IP rating - IQ Battery	IP55
IP rating - IQ8T-BAT Microinverter	IP67
Cooling	Natural convection
Altitude	Up to 2500 m
Mounting	Wall-mount (included) or pedestal-mount (sold separately)
Installation location	Indoor/Outdoor
Protective class	I
Overvoltage category (OVC)	AC OVC III; DC OVC II
Maximum output fault current	32 A_{rms}
Decisive voltage class (DVC)	DC DVC: B; AC DVC: C
Maximum output overcurrent protection	20 A

Communication interfaces	
Communication	Wired control communication (Enphase recommended control cables)
Monitoring	Enphase Installer Platform, Enphase App, and API integration

Standards	
Grid compliance	AS/NZS 4777.2:2020 + A2; active anti-islanding by VAR injection with frequency bias
EMC	EN 50065-2-2, IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-11, IEC 61000-6-2
Safety	AS IEC 62040.1, EN IEC 62109-1, EN IEC 62109-2, AS IEC 62619, UN 38.3

Limited warranty	
Limited warranty	>60% capacity, up to 15 years or 6000 cycles[14]

What's in the box (Order code: IQBATTERY-5P-3P-INT)	
IQ Battery 5P with FlexPhase	Base battery unit of IQ Battery 5P with FlexPhase with six integrated IQ8T-BAT Microinverters
ID cover and conduit cover	IQ Battery ID cover along with four conduit covers, two each for the left and right sides of the unit

[11] At the beginning of life.
[12] Reduction in charging power will occur at temperatures below 15°C and above 45°C.
[13] Reduction in discharging power will occur at temperatures below 5°C and above 50°C.
[14] Whichever occurs first. Restrictions apply. The full text of the warranty is available at https://enphase.com/installers/resources/warranty.

What's in the box (Order code: IQBATTERY-5P-3P-INT)	
Bottom mounting bracket and top protective shield	Bottom mounting bracket for mounting the battery unit on the wall and one top protective shield
M5 locking screws	Two M5 locking screws for securing the battery unit on the bottom mounting bracket
M4 grounding screws	Two M4 grounding screws for securing the top protective shield on the bottom mounting bracket
M5 ID cover grounding screws	Two M5 ID cover grounding screws for fixing the ID cover to the battery base unit
Cable ties	Six cable ties for securing field cables to the unit
Control (CTRL) connector	One pre-installed and one spare CTRL connector without the resistor for CTRL wiring
Control (CTRL) connector with resistor	One pre-installed and one spare CTRL connector with the resistor for CTRL wiring
Quick install guide (QIG)	IQ Battery 5P with FlexPhase installation instructions
Control (CTRL) drain connector	One pre-installed and one spare CTRL drain connector for CTRL wiring
Drill template	One drill template for marking drilling locations on the mounting surface

Accessories and replacement parts	
IQBATTERY-5P-3P-INT-RMA	IQ Battery 5P with FlexPhase unit for field replacement
B305-CX-0550-O	IQ Battery 5P cover only (includes one ID cover)
B305-CP-0140-O	IQ Battery 5P conduit plates only (includes four conduit covers, two each for the left and right sides of the unit)
B05-WB-0543-O	IQ Battery 5P wall bracket only (includes one wall bracket and one top shield)
B05-PM-0550-O	IQ Battery 5P Pedestal Mount
IQBATTERY-HNDL-5	One set of IQ Battery 5P Lifting Handles (includes one left-side and one right-side lifting handle)
B305-ACFB-200-O	IQ Battery 5P AC filter board only (includes AC filter board PCBAs)
B305-BMSIA-0490-O	IQ Battery 5P BMS board only (includes one BMS board PCBA of INT)
B305-IICS-0524-O	IQ Battery 5P in-house control switch only. Includes one in-house control switch preinstalled on the IQ Battery 5P wiring cover (INT)
B305-CANBI-042-O	IQ Battery 5P control communications board only (includes one control communications PCBA)
IQ8T-BAT-RMA	Enphase IQ8T-BAT Microinverter for IQ Battery 5P with FlexPhase for field replacement
B305-TBL-077-O	IQ Battery 5P Line terminal block
B305-TBN-077-O	IQ Battery 5P Neutral terminal block
B305-TBG-077-O	IQ Battery 5P Ground terminal block
B305-FUSE-0005-O	IQ Battery 5P fuse
B305-TBJ-085-O	IQ Battery 5P jumper
B305-PATCH-078-O	Replacement labels for the IQ Battery 5P with FlexPhase power rating

Compatibility	
IQ Gateway Metered	ENV-S-WM-230
IQ Relay (single-phase and three-phase)	Q-RELAY-1P-INT and Q-RELAY-3P-INT

Compatibility	
Communications Kit 2 INT (for grid-tied operation)	COMMS-KIT-INT-02
IQ System Controller 3 INT (for backup operation)	SC100G-M230ROW
Solar inverters	IQ Series Microinverters, third-party PV string inverters[15]

Manufacturer: Enphase Energy Inc., 47281 Bayside Pkwy., Fremont, CA, 94538, United States of America, PH: +1 (707) 763-4784
Importer: Enphase Energy Aust. Pty/Ltd., 88 Market St., South Melbourne VIC 3205, PH: +61 3 86691679
Assembled in China.

[15] Refer to the Systems planning guide for more information on using third-party PV string inverters with IQ System Controller 3 INT in grid-tied systems.

Components of the Enphase Energy System



IQ System Controller 3 INT

The system controller is an integrated enclosure containing all components necessary for backup operation in case of grid outage.



IQ Microinverters

IQ Series Microinverters pack more power into less space than other rooftop solar systems and make rooftop solar more productive, reliable, smart, and safe.



IQ Gateway and Communications Kit 2 INT

The IQ Gateway with current transformers provides complete control and insight into the Enphase Energy System.

The Communications Kit 2 INT enables wired communication between the battery and the gateway for grid-tied operation.



IQ Battery 5P with FlexPhase accessories

The lifting handles are reusable and ease the installation process.

The pedestal enables floor mounting of the battery.

Revision history

Revision	Date	Description
DSH-00745-4.0	August 2025	Updated battery module, mechanical, electrical, and standard specifications.
DSH-00745-3.0	July 2025	Removed rated output current and peak output current values.
DSH-00745-2.0	June 2025	Added units to rated (continuous) output apparent power.
DSH-00745-1.0	May 2025	Preliminary release.