

Product details	IQ Battery 5P	
Model number	IQBATTERY-5P-1P-NA or B05-T02-US00-1-3	
Ordering SKU	IQBATTERY-5P-1P-NA: Standard ordering SKU IQBATTERY-5P-1P-NA-DOM ¹ : Ordering SKU with US domestic content	
Description	The IQ Battery 5P system with integrated IQ Microinverters (SKU: IQ8D-BAT or IQ8D-BAT-DOM) and battery management system (BMS) with battery controller	
Limited warranty		
IQ Battery 5P unit	>60% capacity, up to 15-year or 6,000 cycles ²	
Output (AC)	@240 VAC ³	@208 VAC ⁴
Rated (continuous) output power	3.84 kVA	3.33 kVA
Peak output current	32 A (three seconds), 25.6 A (10 seconds)	—
Nominal voltage/range	240/211–264 VAC	208/183–229 VAC
Power Start capability	Up to 48 A LRA ⁵	—
Nominal frequency/range	60/57–63 Hz	
Rated output current	16 A	
Power factor (adjustable)	0.85 leading ... 0.85 lagging	
Maximum units per 20 A branch circuit	One unit (single-phase)	
Maximum conductor size supported	3 AWG	
Overcurrent protection device (OCPD) for 3 AWG cable	80 A	
Interconnection	Single-phase	
AC round-trip efficiency ⁶	90%	
Battery		
Total capacity	5.0 kWh	
Usable capacity ⁷	5.0 kWh	
DC round-trip efficiency	96%	
Nominal DC voltage	76.8 V	
Maximum DC voltage	86.4 V	
Ambient operating temperature range (charging)	–20°C to 50°C (–4°F to 122°F) non-condensing	
Ambient operating temperature range (discharging)	–20°C to 55°C (–4°F to 131°F) non-condensing	
Optimum operating temperature range	0°C to 30°C (32°F to 86°F)	
Chemistry	Lithium iron phosphate (LFP)	
Mechanical data		
Dimensions (H × W × D)	980 mm × 550 mm × 188 mm (38.6 in × 21.7 in × 7.4 in)	

¹ This ordering SKU is manufactured in the US with some imported parts. The battery cover kit, chassis, BMS, inverter electrical parts, and enclosures are domestically manufactured to qualify for the ITC domestic content bonus adder.

² Whichever occurs first. Restrictions apply.

³ Supported in both grid-tied and backup/off-grid operations.

⁴ Backup/off-grid is not supported for 208 V single-phase operation.

⁵ Power Start capability may vary.

⁶ AC to the battery to AC at 50% power rating.

⁷ The battery's usable capacity supports loads, and turns PV on, 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 at night. Refer to <https://enphase.com/en-gb/download/iq-battery-5p-usable-capacity-tech-brief> for more information.

Mechanical data	
Lifting weight	66.3 kg (146.1 lb)
Total installed weight	78.9 kg (174 lb)
Enclosure	Outdoor-NEMA 3R
IQ8D-BAT Microinverter enclosure	NEMA type 6
Cooling	Natural convection
Operating noise @1 m	<30 dBA maximum
Altitude	Up to 2,500 meters (8,202 feet)
Mounting	Wall-mount or pedestal-mount (sold separately)
Features and compliance	
Compatibility	Compatible with IQ and M Series Microinverters, IQ System Controller 3/3G, IQ Combiner 5/5C, and IQ Gateway for grid-tied and backup operation
Communication	Wired control communication
Services	Backup, Self-Consumption, TOU, and NEM integrity
Monitoring	Enphase Installer Platform and Enphase App monitoring options; API integration
Compliance	CA Rule 21 (UL 1741-SA), IEEE 1547:2018 (UL 1741-SB, 3rd Ed.) CAN/CSA C22.2 No. 107.1-16 UL 9540 ⁸ , UL 9540A ⁹ , UN 38.3, UL 1998, UL 991, NEMA Type 3R, AC156 EMI: 47 CFR, Part 15, Class B, ICES 003 Cell module: UL 1973, UN 38.3 Inverters: UL 62109-1, IEC 62109-2
What's in the box	
IQ Battery 5P unit	IQ Battery 5P unit (B05-T02-US00-1-3)
ID cover and conduit cover	IQ Battery 5P cover with two conduit covers for the left and right sides of the unit
Bottom mounting bracket and top shield	Bottom mounting bracket for mounting the battery on the wall. One top shield is required for UL 9540A
M5 seismic screws	Two M5 seismic screws for securing the battery unit on the bottom mounting bracket
M4 grounding screws	Two M4 grounding screws for securing the top shield on the bottom mounting bracket
M5 ID cover grounding screws	Two M5 ID cover grounding screws for the EMI/EMC requirement
Cable ties	Six cable ties for securing field cables to the unit
Control (CTRL) connector	Spare CTRL connector without resistor for CTRL wiring
Control (CTRL) connector with resistor	Spare CTRL connector with resistor for CTRL wiring
Quick install guide (QIG)	QIG for IQ Battery unit installation instructions
Optional accessories and replacement parts	
IQ8D-BAT-RMA	IQ8D-BAT Microinverter for field replacement
B05-T02-US00-1-3-RMA	IQ Battery 5P Battery unit for field replacement
B05-CX-0550-O	IQ Battery 5P cover for field replacement
B05-PI-0550-O	IQ Battery 5P Pedestal Mount

⁸ Following local standards, choose a non-habitable indoor location (like a 2-car garage) or an outdoor location where the ambient temperature and humidity are within -4°F to 131°F (-20°C to 55°C) and 5% to 95% RH, non-condensing. Avoid direct sunlight to ensure the temperature stays in the optimal operating range. This ensures charging and discharging currents are not de-rated due to temperature. The full performance will occur within 59°F to 113°F (15°C to 45°C) while charging and within 32°F to 122°F (0°C to 50°C) while discharging.

⁹ Evaluated to UL 9540A for thermal runaway fire propagation and reduced separation distance as required in 2021 IRC R328.3.1, 2021 IFC 1207.1.5, and 2023 NFPA 855 15.3.1 and 9.1.5. Follow all installation instructions and local codes and requirements of the Authority Having Jurisdiction (AHJ) when installing the Enphase Energy System.

Optional accessories and replacement parts

B05-CP-096-O	IQ Battery 5P conduit plates for field replacement. Includes one left-side and one right-side conduit plate
B05-WB-0543-O	IQ Battery 5P wall bracket for field replacement. Includes one bottom mounting bracket and one top shield
IQBATTERY-HNDL-5	IQ Battery 5P Lifting Handles. Includes one left-side and one right-side lifting handle
B05-ACFB-080-O	IQ Battery 5P AC filter board for field replacement
B05-BMSNA-0490-O	IQ Battery 5P BMS board for field replacement
B05-CANB-063-O	IQ Battery 5P control communication board for field replacement
B05-NICS-0524-O, B05-NUCS-0524-O	IQ Battery 5P control switch is preinstalled on the wiring cover for field replacement

Components of the Enphase Energy System



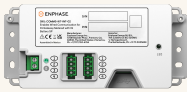
IQ Microinverters

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

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



Communications Kit 2 INT

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



IQ Battery 5P accessories

The IQ Battery 5P Lifting Handles are reusable and ease the installation process. The IQ Battery 5P pedestal enables floor mounting of the IQ Battery 5P.

IQ Battery 5P system configuration examples



Figure 1: Whole home backup ① IQ System Controller ② IQ Combiner ③ IQ Battery 5P



Figure 2: Wall-mounted, grid-tied system ① IQ Combiner ② IQ Battery 5P

Revision history

Revision	Date	Description
DSH-00010-11.0	May 2025	Updated footnote 8 on page 3.
DSH-00010-10.0	March 2025	Added the "IQ Battery 5P system configuration examples" section.
DSH-00010-9.0	November 2024	Included the 208 V output specifications.
DSH-00010-8.0	August 2024	- Added the parameter "Operating noise" under the "Mechanical data" sections. - Updated the footnotes for UL 9540 and UL 9540A under the "Features and compliance" section.
DSH-00010-7.0	August 2024	Added IQBATTERY-5P-1P-NA-DOM SKU information.
DSH-00010-6.0	May 2024	- Updated safety section on page 1. - Updated the document to a new template.
DSH-00010-5.0	February 2024	Updated the SKU on page 1.
DSH-00010-4.0	November 2023	Updated the “Output (AC)” table.
DSH-00010-3.0	September 2023	- Updated product images. - Editorial updates.
DSH-00010-2.0	July 2023	- Added battery isometric view on the first page. - Editorial updates.
DSH-00010-1.0	May 2023	Initial release.