

IQ Battery 5P

| MODEL NUMBER | |
|--|--|
| IQBATTERY-5P-1P-ROW | The IQ Battery 5P system with integrated IQ Microinverters and battery management system (BMS) with battery controller |
| WHAT'S IN THE BOX (FOR EACH IQ BATTERY 5P) | |
| IQ Battery 5P unit | IQ Battery 5P unit (B05-T02-ROW00-1-2) |
| 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 and one top shield |
| 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 |
| ACCESSORIES AND REPLACEMENT PARTS | |
| IQ8D-BAT-RMA | IQ8D-BAT Microinverter for field replacement |
| B05-T02-ROW00-1-2-RMA | IQ Battery 5P Battery unit for field replacement |
| B05-CX-0550-O | IQ Battery 5P cover for field replacement |
| B05-PM-0550-O | IQ Battery 5P pedestal mount |
| 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-BMSRA-0490-O | IQ Battery 5P BMS board for field replacement |
| B05-CANBR-063-O | IQ Battery 5P control communication board for field replacement |
| B05-RICS-0524-O, B05-RUCS-0524-O | IQ Battery 5P control switch is preinstalled on the wiring cover for field replacement |
| OUTPUT FOR EACH IQ BATTERY 5P (AC) | |
| | @230 VAC ¹ |
| Rated output apparent power | 3.84 kVA |
| Peak output power | 7.68 kVA (3 seconds), 6.14 kVA (10 seconds) |
| Nominal voltage/Range | 230/211–264 VAC |
| Nominal frequency/Range | 50/47–53 Hz |
| Rated output current | 16.7 A |
| Peak output current | 33.4 A (3 seconds), 26.7 A (10 seconds) |
| Power factor (grid-tied) | 0.8 leading...0.8 lagging |
| Power factor (off-grid) | 1.0 leading...1.0 lagging |
| Maximum short circuit current | 32 A _{rms} 3 cycles |
| Peak short circuit current | 488 A _{rms} for 12 μs |
| Maximum output overcurrent protection | 20 A per unit |
| Inverter topology | Isolated (HF transformer) |
| Interconnection | Single-phase |
| Protection class | I |
| Overvoltage category | III |
| AC round-trip efficiency ² | 90% |

¹Supported in both grid-connected and backup/off-grid operations.

²AC to the battery to AC at 50% power rating at 25°C.

IQ Battery 5P

BATTERY FOR EACH IQ BATTERY 5P

| | |
|---|------------------------------|
| Usable capacity ³ | 5.0 kWh |
| DC round-trip efficiency | 96% |
| Nominal DC voltage | 76.8 V |
| Ambient operating temperature (charging) | -20°C to 50°C non-condensing |
| Ambient operating temperature (discharging) | -20°C to 55°C non-condensing |
| Optimum operating temperature range | 0°C to 30°C |
| Chemistry | Lithium iron phosphate (LFP) |

MECHANICAL DATA FOR EACH IQ BATTERY 5P

| | |
|----------------------------------|--|
| Dimensions (HxWxD) | 980 mm x 550 mm x 188 mm |
| Lifting weight | 66.3 kg |
| Total installed weight | 78.9 kg |
| Enclosure | Outdoor-IP55 |
| IQ8D-BAT Microinverter enclosure | Outdoor-IP67 |
| Cooling | Natural convection |
| Altitude | Up to 2,000 m |
| Mounting | Wall-mount or pedestal-mount (sold separately) |

FEATURES AND COMPLIANCE

| | |
|---------------|---|
| Compatibility | Compatible with IQ Series and S Series Microinverters. The IQ System Controller 3 INT is required for grid-tied and backup operation |
| Communication | Wired control communication |
| Services | Backup, Self-Consumption, and TOU |
| Monitoring | Enphase Installer Platform and Enphase App monitoring options; API integration |
| Compliance | Performance: AS/NZS 4777.2:2020 + A1 Safety: AS IEC 62040.1, EN IEC 62109-1, EN IEC 62109-2, AS IEC 62619, UN 38.3 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 |

LIMITED WARRANTY

| | |
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| Limited warranty | >60% capacity, up to 15 years or 6,000 cycles ⁴ |
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³Usable capacity is the maximum kWh of discharge capacity from the battery across all system operating modes.

Reserved capacity is the partial battery capacity reserved for off-grid usage, and is not available while the system is grid-connected. It is a user-settable value and can be set via the Enphase App. Very low state-of-charge (VLS) is the battery shutdown level or the capacity at which the battery stops operating. It is a user-settable value that can be set via the capacity of the battery below the VLS level is used to automatically restart during daylight hours to recharge the batteries with solar power.

⁴Whichever occurs first. Restrictions apply.

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Assembled in China

Revision history

| REVISION | DATE | DESCRIPTION |
|---------------|--------------|--|
| DSH-00020-2.0 | October 2023 | <ul style="list-style-type: none">• Added battery isometric view on the first page• Editorial updates |
| DSH-00020-1.0 | May 2023 | Initial release |