

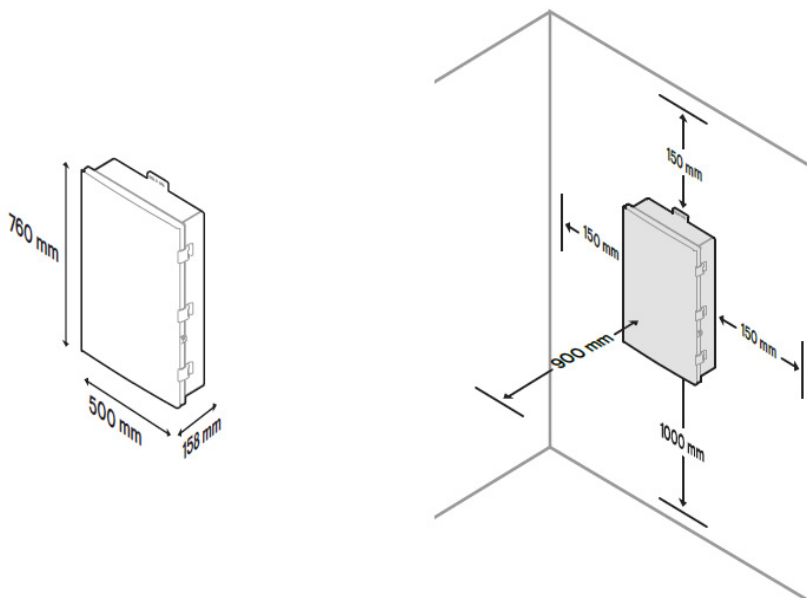


IQ System Controller 3 INT

The IQ System Controller 3 INT connects the home to grid power, the IQ Battery storage system, and solar PV. It provides microgrid interconnect device (MID) functionality by automatically detecting and seamlessly transitioning the home energy system from grid power to backup power in the event of a grid failure. It consolidates interconnection equipment and communication gateway into a single enclosure and streamlines grid independent capabilities of PV and storage installations by providing a consistent, pre-wired solution for residential applications.

Mounting IQ System Controller 3 INT

Must be installed with clearance at the left, right, top, bottom, and front of the product



Reliable

- Durable IP55 enclosure
- Ten-year limited warranty

Smart

- Controls safe connectivity to the grid
- Automatically detects grid outages
- Provides seamless transition to backup
- Wired Controls

Simple

- Supports single phase and three phase configurations for solar and grid
- Supports conduit entry from the bottom, rear, left, and right
- Supports IQ7 and S Series Microinverters
- Supports main circuit breaker up to 80 A



10-year limited warranty

IQ System Controller 3 INT

MODEL NUMBER		
SC100G-M230ROW		IQ System Controller 3 INT, microgrid interconnect device (MID), production and consumption CTs, IQ Gateway, and Communication Kit. Streamlines grid-independent capabilities of PV and storage installations.
ACCESSORIES AND REPLACEMENT PARTS ¹		
SC-IQG-PCBA-ROW		IQ Gateway printed circuit board for field replacement
SC-ECB-PCBA-ROW		IQ System Controller 3 INT printed circuit board for field replacement
SC-PRB-PCBA-ROW		Power relay board sub assembly for field replacement
SC-IOB-PCBA-ROW		Field Interface board with dry contacts for field replacement
SC-MRA-SUB-ROW		Mains relay sub assembly for field replacement
CTRL-040-HDR-INT		Enphase CTRL headers for connecting between CTRL devices
CT-100-SOLID-ROW		100 A solid core current transformer with 1% accuracy for production and consumption monitoring
CT-100-SPLIT-ROW		100 A split core current transformer with 1% accuracy and reduced form factor for consumption monitoring
Circuit breakers (as needed)		DIN rail mounted. Not included, must order separately. Refer to Quick Install Guide for recommended brands
SC-COV-SUB-ROW		Door sub assembly along with solar shield for field replacement
SC-LAT-SUB-ROW		Door latches for field replacement
ELECTRICAL SPECIFICATIONS		
Assembly rating		Continuous operation at 100% of its rating
AC voltage (nominal)		230 V (Line-to-Neutral) 400 V (Line-to-Line)
Feed-in type		Single-phase, three-phase
Voltage measurement accuracy		±1.8 VAC
Overvoltage category		Category III
Maximum input short circuit current		5 kA
Auxiliary contact for load control and excess PV control		230 VAC RMS/24V DC, 1 A
Nominal frequency/range		50 Hz
Maximum continuous current rating		80 A per phase
Maximum input overcurrent protection device		80 A per phase, neutral
Maximum output overcurrent protection device		80 A per phase
Maximum overcurrent protection device rating for PV		25 A per branch circuit for PV
Maximum overcurrent protection device rating for storage		80 A (20 A over current protection for each IQ Battery 5P, up to four IQ Battery 5P can be daisy chained)
Backup operation		Single-phase
Operation modes		Support for solar self-consumption, time-based control, and backup
COMPLIANCE		
Safety		IEC-62109-1, AS/NZS IEC 61439-1, IEC 61439-3,
EMC and radio equipment		RCM, IEC 61000-6-1, IEC 61000-6-3, EN 55024, EN 300 328, EN 300 440, EN 301 489-1, EN 301 489-17, EN 301 489-52, EN 301 511, EN 301 893, EN 301 908-1
Performance		IEC 62503-22, AS/NZS4777.2:2020 + A1
WIRE SIZES		
Connections (all lugs are rated to 90°C)		Main lugs and backup load lugs Cu: 2.5 mm ² to 35 mm ²

1. Will be available in Q3 2023

WIRE SIZES		
Neutral and ground bars	Large holes	2.5 mm² to 35 mm²
	Small holes	2.5 mm² to 16 mm²
MECHANICAL DATA		
Dimensions (WxHxD)	500 mm x 760 mm x 158 mm	
Weight	15.2 kg	
Circuit breaker space (DIN rail)	DER side: Space for 10 single pole breakers Mains and backup side: Space for 9 single pole breakers	
Mounting options	Wall-mount	
Ambient temperature range	-40°C to 50°C	
Operating humidity (RH)	Up to 100%, condensing	
Cooling	Natural convection, solar shield	
Enclosure environmental rating	Outdoor, IP55, polycarbonate construction	
Altitude	Up to 2,000 m	
WARRANTY		
Limited warranty (Restrictions apply)	Up to 10 years	

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