

Q.HOME COMBINER

Q.HOME COMBINER 80 G1

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Combiner Box of the Q.HOME SMART Residential Energy Solution



Flexible

Network connectivity with Wi-Fi, Ethernet or Cellular



Consolidated

80A total PV and storage branch circuits



Robust

NRTL-certified NEMA type 3R enclosure rated for outdoor installation



Streamlined

Pre-installed revenue grade production meter, with a pair of slim clamp CTs for consumption metering



Reliable

- 5-year warranty
- Automatic firmware updates



Complete

- Part of Qcells' complete Q.HOME SMART solution offering
- One brand. One warrantor

■ Description

The Q.HOME COMBINER 80 G1 consolidates up to 4 PV strings with a maximum of 44 AC Modules connected into a single enclosure. This enables a smooth interconnection across Q.HOME SMART products while ensuring easy and fast installations. Save time and costs by incorporating this user-friendly combiner box, optimally designed for residential applications. Contact Qcells Customer Support if it is desired to install more than 44 AC Modules.

■ Technical Specification

GENERAL PRODUCT INFORMATION		Q.HOME COMBINER 80 G1
Manufacturer		Hanwha Solutions Corporation
Product Warranty		5 years
Country of Manufacturer		Vietnam
ACCESSORIES AND REPLACEMENT PARTS		
Supported AC Modules (Microinverter included)		Q.TRON BLK M-G2+/AC
Cellular Modem (LTE-MT-MODEM-CAT4-TN5)		4G based LTE-CAT4 (+5year data plan included)
WiFi Dongle (WIFI-HQ-DG-USB)		FCC Part 15 Subpart C/2412.0 to 2462.0 MHz **
Circuit Breakers		Supports Eaton BR210, BR215*, BR220, BR230, BR240, BR250, and BR260 circuit breakers
Consumption Monitoring CT (CT-JS-CLAMP-200A-5.2m)		A pair of 200A clamp type current transformers (accuracy ±0.5%) **
* pre-assembled / ** included in the package (Others are not included, need to be ordered seperately)		
ELECTRICAL SPECIFICATIONS		
System Voltage	[V]	120 / 240 VAC, 60 Hz
Eaton BR Series Busbar Rating	[A]	125
Max. Continuous Current Rating (input from PV / storage)	[A]	64
Max. Fuse / Circuit Rating (output)	[A]	90
Branch Circuits (solar and / or storage)	[pcs]	Up to four 2-pole Eaton BR series Distributed Generation (DG) breakers only (not included)
Max. Total Branch Circuit Breaker Rating (input)	[A]	80 A of distributed generation / 95 A with Gateway breaker included
Gateway Circuit Breaker	[A]	15 A rating Eaton included
Consumption Monitoring	[A]	Metering with a pair of 200 A split core current transformers (accuracy ±2.0%)
Production Metering	[A]	Metering with 200 A solid core current transformer pre-wired to Gateway (accuracy ±0.5%)
MECHANICAL DATA		
Max. AC Module Connection Q'ty	[pcs]	Up to 44 AC Modules (11 in series × 4 strings)
Dimensions (W × H × D)	[inch]	14.6 × 19.3 × 6.3 / height is 21.7 with mounting brackets (37.0 × 49.0 × 16.0 cm / height is 55.1 cm with mounting brackets)
Weights (without connection cables)	[lb]	11.5 (5.2 kg)
Operating Temperature Range	[°F]	-40 to 140 (-40 to 60 °C)
Storage Temperature Range	[°F]	-40 to 140 (-40 to 60 °C)
Enclosure Environmental Rating		Outdoor, NRTL-certified, NEMA type 3R, polycarbonate construction
Wire Sizes		<ul style="list-style-type: none"> ▪ 20 A breaker inputs: 12 to 8 AWG copper conductors ▪ Main lug combined output: 10 to 2/0 AWG copper conductors ▪ Neutral and ground: 8 to 6 copper conductors ▪ Always follow local code requirements for conductor sizing
Cooling		Natural convection
Altitude	[m]	Up to 2,000 (6,561 feet)
INTERNET CONNECTION OPTIONS		
Wi-Fi		IEEE 802.11b/g/n
Cellular		CELLMODEM-CAT4 (4G based LTE-CAT4)
Ethernet		Optional, IEEE 802.3, CAT5E (or CAT6) UTP Ethernet cable
COMPLIANCE		
AC Combiner		<ul style="list-style-type: none"> ▪ UL 1741, CSA C22.2 No.107 ▪ FCC Part 15.B ▪ ANSI C 12.20 accuracy class 0.5 (production meter) ▪ NEMA type 3R ▪ IEEE 2030.5 / CSIP Compliant
Monitoring board		UL 61010-1 / UL 61010-2-030 CSA 22.2 No. 61010-1-12 / CSA 22.2 No. 61010-2-030
CT sensor		Solid core, Split core XOBA

■ Accessories

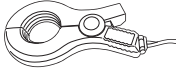
Parts included in the package



WIFI-HQ-DG-USB

Wi-Fi dongle with 2.4GHz bandwidth

FCC ID: OZ5C307-HW-WF



CT-JS-CLAMP-200A-5.2m

A slim clamp type consumption CT with $\pm 0.5\%$ accuracy (5.2 m, 20 AWG)

UL2808(XOBA) E498920

Additional parts (Not included in the package)



CT-HQ-SOLID-200A-2m

A revenue grade solid core production CT with $\pm 0.1\%$ accuracy (2 m, 18 AWG)
Calibration is required to support revenue grade metering.

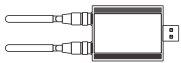
UL2808(XOBA) E535456



CT-JS-CLAMP-200A-25m

A slim clamp type consumption CT with $\pm 0.5\%$ accuracy (25 m, 20 AWG)

UL2808(XOBA) E498920



LTE-MT-MODEM-CAT4-TN5

Cellular modem with 5 year data plan of AT&T or T-mobile included

UL 62368-1 E150299



LTE-TN-DP-5Y

5 year data plan extension (for customers previously using cellular option)



Qcells pursues minimizing paper output in consideration of the global environment.

Note: Installation instructions must be followed. Contact our technical service for further information on approved installation of this product.

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