























































ENPHASE
IQ Combiner 5
 Photovoltaic
 Combiner Box
 X-IQ-AM1-240-5

UL LISTED
 ETL LISTED
 NOM
 FC

Electrical ratings
 Voltage: 240V ~, 60Hz
 DG Breaker: 50A MAX (continuous)
 DG Input: 40A MAX (continuous)
 Output: 50A MAX, 50A MAX (under OCPD)
 Temperature: 40°C (104°F) ambient

Connections

Connection	Wire size	Termination	
DG Breaker (1, 2, 3, 4)	14-12 AWG	3.2 Nm (22 lb-in)	
DG Breaker only	8 AWG	2.8 Nm (23 lb-in)	
DG Breaker only	6-4 AWG	3.0 Nm (22 lb-in)	
DG Breaker only	4-1/2 AWG	5.0 Nm (40 lb-in)	
DG Breaker (1)	14-10 AWG	2.25 Nm (17 lb-in)	
DG Breaker (2)	14-10 AWG	1.4 Nm (12.4 lb-in)	
Neutral and ground	Large screw	3-1/2 AWG	3.6 Nm (30 lb-in)
		14-0 AWG	5.1 Nm (45 lb-in)
	Small screw	6 AWG	3.6 Nm (30 lb-in)
		8 AWG	2.8 Nm (23 lb-in)
Main lug	10-4 AWG	5.0 Nm (40 lb-in)	
	2-2/0 AWG	5.4 Nm (50 lb-in)	
CTRL Connectors	CTRL Cable (E1, C2)	18 AWG	0.2 Nm (1.77 lb-in)
	Dish Cable (C3)	18 AWG	0.2 Nm (1.77 lb-in)

Copper conductors only, rated min. 75°C.
 Follow NFPA 70 (NEC), or CSA C22.1 part 1, and all local codes.
 For DG Breakers larger than 20A, use wire insulated for 90°C based on 75°C ampacity.
 Distributed in California and India. Made in Mexico.

Non terminating node : CTRL (CONTROL) Wiring
 When IQ System Controller is 30 and/or ID battery GP are on both sides of IQ Combiner and both CTRL terminals are used.

CTRL L (BLUE)	CTRL Board
CTRL H (ORANGE)	CTRL Board
CTRL G (BLACK)	CTRL Board
NOT USED	CTRL Board

Terminating
 When IQ System Controller 30H and/or ID battery GP are on both sides of IQ Combiner and only one CTRL terminal is used.

GRID-FORMING SYSTEMS

