

Remote Power Panel (RPP)



Features & Benefits

- Quick ship from inventory
- UL and cUL listed
- Maximum Voltage: 480V
- Maximum Ampacity: 400A Max MTS/MTO (for additional product offering consult your sales engineer)
- Short Circuit Current Rating: 14 kAIC @ 480VAC (65 kAIC @ 240VAC) Standard; 65kAIC @ 480VAC Optional
- Enclosure Dimensions: 24" W x 12" D x 90" H
- All cable terminations and serviceable components accessible from the front of the enclosure
- Maximum (individual) breaker ampere rating of 125A. Maximum total current capacity of 150A for breakers mounted side-by-side
- IR Inspection Windows (Optional): Inspection windows are provided to allow infrared thermal scanning of cabled supply connections
- Enclosure is capable of mounting in a free-standing, wall-mounted or back-to-back configurations
- ANSI 61 light gray standard finish, other colors available as option
- Seismic: Tested to the ICC-ES-AC-156 testing method and meets the requirements of IBC-2021, CBC-2019 and IEEE 693-2005

IEM's 400A Remote Power Panel (RPP) provides an unmatched power distribution panel in a highly compact footprint allowing easy integration with your data center facility. Our RPP features an advanced fully integrated and intelligent BCMS (Branch Circuit Monitoring System) with local display for main input and branch circuit breakers to monitor current, voltage, power/energy, and power quality parameters ensuring easy and effective power management.

Construction

- Panelboard features a total of (84) single-pole branch circuit breaker positions
- For Main Lug Only (MLO) consult Sales

Branch Circuit Monitoring System

- Fully integrated BCMS to monitor the main and branch circuit electrical current, voltage, power/energy and power quality parameters
- Modular design for expansion capability and shall utilize DIN-rail type mounting for easy serviceability
- All circuits are monitored
- All metering utilizes true RMS methods to produce accurate measurements in the presence of non-linear loads
- Metering accuracy is 0.5% or better for voltage, current, frequency and active/apparent power and energy
- The RPP BCMS system is powered by the incoming primary supply circuits

Local Display

BCMS provided with touchscreen display for viewing monitored parameters, alarms and to allow setting of configurable parameters from the exterior of the RPP with all access doors closed

Communications

Interface: Dual 10/100Base-T(X) RJ-45 Ethernet ports shall be provided for connection to an external monitoring network. The ports utilize a switched configuration to support a daisy chained network topology

Communication Protocols: Modbus TCP and SNMP

RPP Ratings Overview

Nominal Voltage Rating	415Y/240 VAC
	480Y/277 VAC (Optional)
	208Y/120 VAC (Optional)
Input Connection Phasing	3Ø-Y, 4-wire
Frequency	60 Hz
Main Input Circuit Breaker	400 A
	100% Rated, LSI
	(80% Rated, LSI Optional)
SCCR (Interrupt Rating)	14kA @ 480VAC/ 65kA @ 240 VAC
	65kA @ 480VAC (Optional)
Distribution Panel	(84) single-pole branch circuit positions
Distribution Branch Circuit Breakers	(28) 30 A/3-Pole
	(28) 50 A/3-Pole (Optional)
Metering/Monitoring	Breaker Circuit Monitoring System (BCMS) ¹
	Local Display
Load Bank Connection	Provisions (Lugs provided by others)
Isolated Neutral	200%
Surge Protection ¹	100 kA (Optional)
IR Inspection Windows	Optional
Enclosure	(Indoor) UL Type 1
	Front Access Only
	Top & Bottom Cable Entry
	Seismic Tested ²
Dimensions (W x D x H)	24 in. x 12 in. x 90 in.
	(610 mm x 305 mm x 2032 mm)
Weight (Max)	370 +/-20 lbs
	(168 +/-9 kg)

¹ BCMS & SPD are compatible for solidly grounded systems only

² 2 ICC-ES-AC-156, IBC-2021, CBC-2019, IEEE 693-2005



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Features	Made-To-Stock (MTS)	Made-To-Order (MTO)
Quick ship Available	Yes	Contact your IEM Sales Engineer for more options
Main Breaker	400A 100% rated LSI	400A, 80% Rated, LSI
Short Circuit Rating	14 kAIC @ 480VAC (65 kAIC @ 240VAC)	65 kAIC @ 480VAC
Branch Breakers Options	(28) 30A/3P	(28) 50A/3P
Surge Protection	None	100kA
IR Windows	Optional	Optional
Branch Circuit Monitoring System (BCMS) w/ Local Display	All circuits monitored	All circuits monitored
Communications	MODBUS TCP	MODBUS TCP
Load Bank Connection	Provision only	Provision only

SPN Code Scheme

	Base RPP									Breaker Config									Features & Options			
Digit	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20		
SPN Code	R	P	P	4	5	L	A	S	-	B	C	D	D	3	O	-	C	X	X	X		
Note: Referenced SPN Code represents Quick Ship configuration																						

SPN Code Digit / Character Definitions

Base RPP

1-3	Product Type
RPP	Remote
4	Ampacity
4	400A
5	Nominal Voltage
2	208Y / 120 VAC
4	480Y/ 277 VAC
5	415Y/ 240 VAC
6	SCCR
L	14kA @ 480 VAC / 65kA @ 240 VAC
H	65kA @ 480 VAC
7	Breaker MFG.
A	ABB, Tmax XT & TEY
8	Distribution
S	(84) Circuits (Single-Pole)

Breaker Configurations

10	Main Type
B	Main Input Circuit Breaker
11	Main Breaker Rating
C	100% Rated
8	80% Rated
12	Main Breaker Trip Unit
D	ETU "LSI"
13	Main Breaker Lugs
D	Default: (2) #2/O - 500 kCMIL/ PH
14-15	Branch
30	(28) 30A/3-POLE
50	(28) 50A/3-POLE

Features & Options

17	Monitoring
C	Branch Circuit Monitoring System (BCMS)
18	Surge Protection
X	None
Y	100KA
19	IR Window
X	None
R	IR Scanning Window
20	Option - Reserved
X	None
Z	Reserved



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