

INDUSTRIES & APPLICATIONS



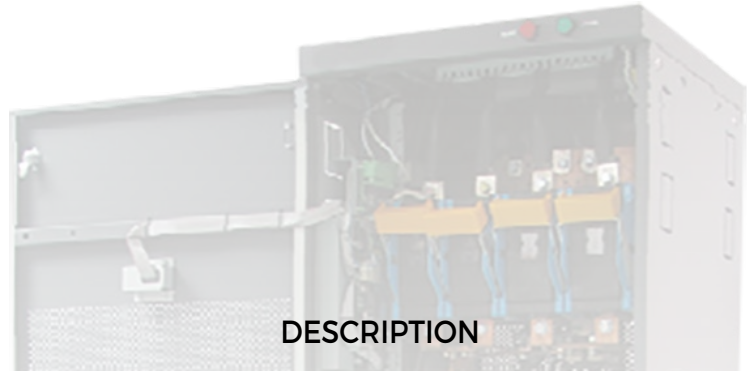
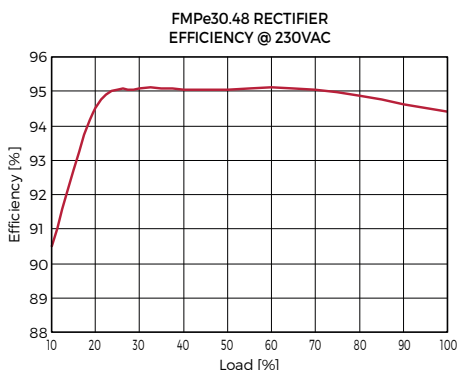
KEY FEATURES

- ◆ 92.5-96% Efficiency Rectifiers
- ◆ 1100A / 59kW Cabinet Load Capacity
- ◆ 5500A / 294kW Total Load Capacity
- ◆ Remote Monitoring & Control
- ◆ Field Replaceable Controller
- ◆ Ethernet Comm. with SNMPv3
- ◆ 3 LED Alarm/Status Indicators
- ◆ 4 or 10 Form-C Relay Alarms
- ◆ Up to 72 Load Breakers per Cabinet
- ◆ Up to 4 Bulk Outputs per Cabinet
- ◆ LCD Display with Keypad

SAFETY COMPLIANCE

UL60950-1 2nd Ed.
 CSA22.2 No. 60950-1 2nd Ed.
 EN60950-1 2nd Ed.

THREE YEAR WARRANTY



DESCRIPTION

Guardian Central is a multi-cabinet integrated DC power system providing an output of -48VDC. Each 2.1m high cabinet can accommodate up to 24 Guardian family high efficiency hot-swap rectifiers along with AC input and DC output distribution. A load current of 1100A plus 250A for battery charge is available from each cabinet with a maximum system capacity of 5500A when 5 cabinets are connected in parallel. The rectifiers are internally fan cooled with speed control which is a function of load and temperature, keeping acoustic noise to a minimum.

Each cabinet can provide up to 4 bulk DC outputs at 384A or 600A via fuses or MCBs. Additionally a maximum of 72 lower current distributed outputs are available via MCBs rates from 6A to 63A. Batteries are protected by a combination of an 1100A low voltage battery disconnect (LVBD) and fuses or alternatively using MCBs. In both cases a 1500A shunt is used to measure battery current both while charging and discharging.

Matching load distribution cabinets allow for extra DC output distribution with the same options as for the main system cabinets.

The ACC Extended remote access controller monitors system parameters, controls rectifier output, and provides alarms for system failures. The Controller Module is also pluggable for easy field replacement in case of failure. There are 2 LED alarm indicators which indicate failures, (RED) Alarm and (YELLOW) Message. A third green LED indicates the controller is working properly. As standard four form-C relay outputs provide the alarms for remote use. An additional 6 can be included as an option. Two digital inputs and outputs are also provided as well as a microSD card slot that accepts an up to 4GB card which is sufficient for more than 20 years data logging.

The system can be programmed by means of a remote PC web page display. Communication is by Ethernet LAN with SNMPv3 including alarm trapping. It also has provision for temperature compensated charging of an external battery using a supplied TC probe. An LCD Display/Touchpad is included for local metering, status, and setup.

The Guardian Central is compatible with UNIPOWER's free [PowCom™ software](#) which offers local and remote management through an advanced Windows GUI.

SYSTEM SPECIFICATION & CAPABILITY GUIDE

SYSTEM DESIGNATION		GUARDIAN CENTRAL - 1-M00029G / 1-MS0029G			
		Main Cabinet		Extension Cabinet (4 max.)	
OUTPUT					
System Voltage	-48VDC nominal 53.5VDC float				
Maximum Capacity @ 230/400VAC nominal	Load	1100A			
	Battery	s/w controlled charge, max. 250A			
No. Rectifier Slots	4 to 24 (see configuration guide)				
DC DISTRIBUTION					
Loads Circuits (also available from distribution cabinet)	MCBs: 24 x 2 to 63A; 16 x 63 to 125A; 12 x 2 to 63A + 8 x 63 to 125A; 2 or 4 x 384A; 2 x 600A Fuses: 8 x NH00; 4 x NH2; 3 x NH3; 6 x NH3				
Battery Circuits	MCBs: 1 x 1500A; 2 x 600A; 4 x 384A; 2 x 384A Fuses: 3 x NH3; 6 x NH3				
INPUT					
Voltage (nominal)	2 x 3-phase 230/400VAC (L1 L2 L3 + N + PE)				
Frequency	47-63Hz				
Maximum Input Current	2 x 72A per phase @ 400/230VAC				
Rectifier Power Factor	>0.98 (typical)				
Surge Protection	Optional				
Distribution / Current Protection	Optional PDU with MCBs: up to 24 x 32A				
MONITORING & CONTROL (ACC Extended Controller)					
Alarm Relays	4 standard, option for 10				
Local Interface	4 x 20 LCD, 4-key menu, USB / RS232, microSD card slot (4GB max.) for data logging				
Remote Interface	Ethernet / Modem using PowCom™ software package Ethernet port allows monitoring and control over a TCP/IP network. Web browser support + SNMPv3				
LED Indications	Green - System ON; Yellow - Message(s); Red LED - Alarm(s)				
External Digital I/O	2 x Inputs, 2 x Outputs (Open Collector)				
BATTERY MANAGEMENT					
Symmetry Inputs	6 or 12 (can be redefined as analog inputs up to 100VDC)				
Low Voltage Battery Disconnect (LVBD)	1 x 1100A Programmable		1 x 1100A Programmable		
Temperature Compensated Charging	Programmable				
COMPLIANCE					
EMC	EN 300 386 ; EN61000-6-3 (Emission) ; EN61000-6-2 (Immunity)				
Safety	IEC60950-1:2005 2 Ed. +A1:2009				
ENVIRONMENTAL					
Operating Temperature	-40°C to +55°C				
Storage Temperature	-40°C to +85°C				

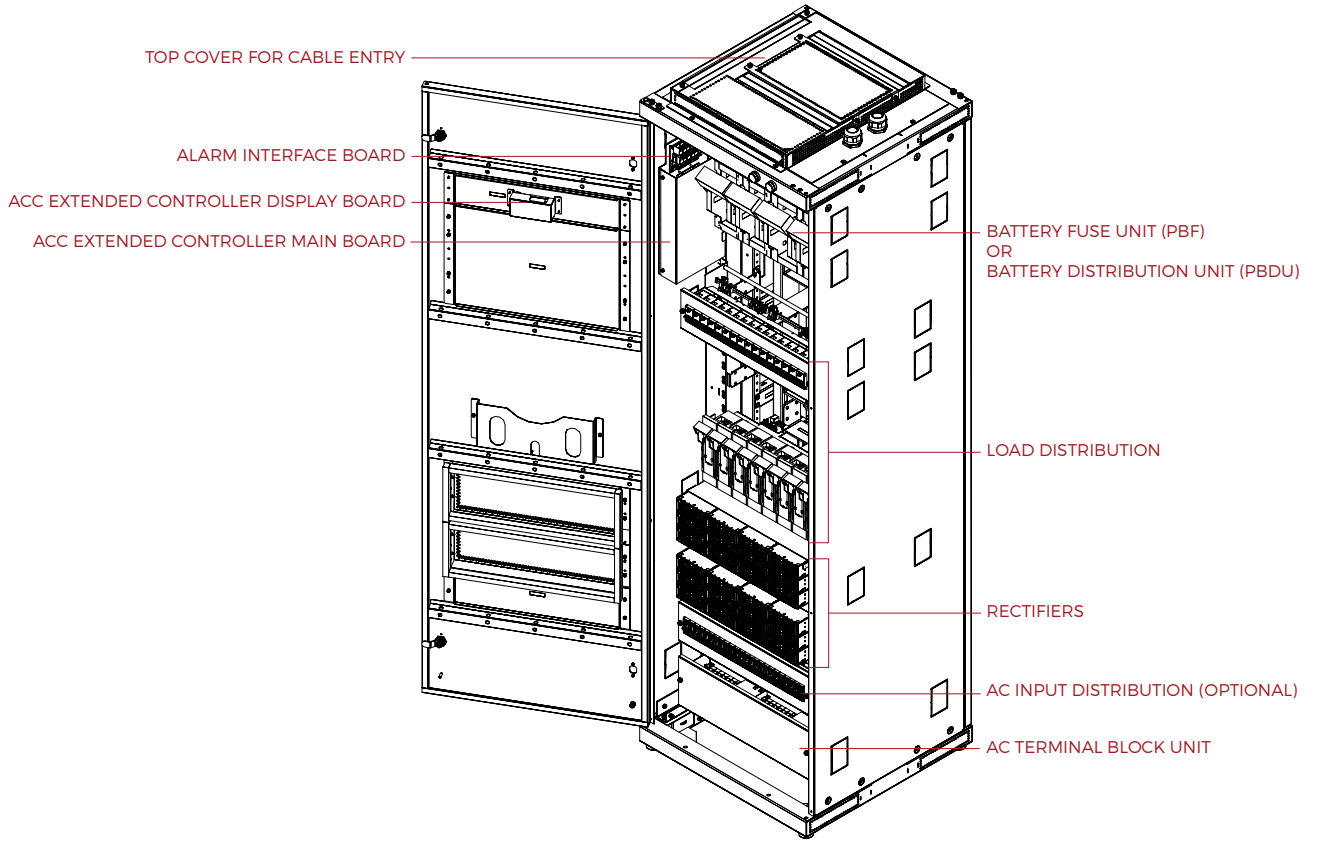
RECTIFIER MODULES vs. SYSTEM CAPACITIES

RECTIFIER MODULES (float voltage 53.5V)						SYSTEM CAPACITY			
MODEL NUMBER	EFFICIENCY	INPUT VOLTAGE	INPUT CURRENT ¹	OUTPUT POWER	OUTPUT CURRENT	MAX. LOAD CURRENT MAIN CABINET ²		MAX. LOAD CURRENT EXTENSION CABINETS ²	
						TOTAL	23+1	TOTAL	23+1
FMP20.48 ³ FMPe20.48G	>92.5% >96.0%	180-275VAC	11.6A	2000W	37.4A	898A	860A	898A	860A
FMP25.48G ³	>92.5%	180-275VAC	16.8A	2500W	46.7A	1100A	1074A	1100A	1074A
FMPe30.48C ³ FMPe30.48G	>95.0%	180-275VAC	17.0A	2900W	54.2A	1100A	1100A	1100A	1100A

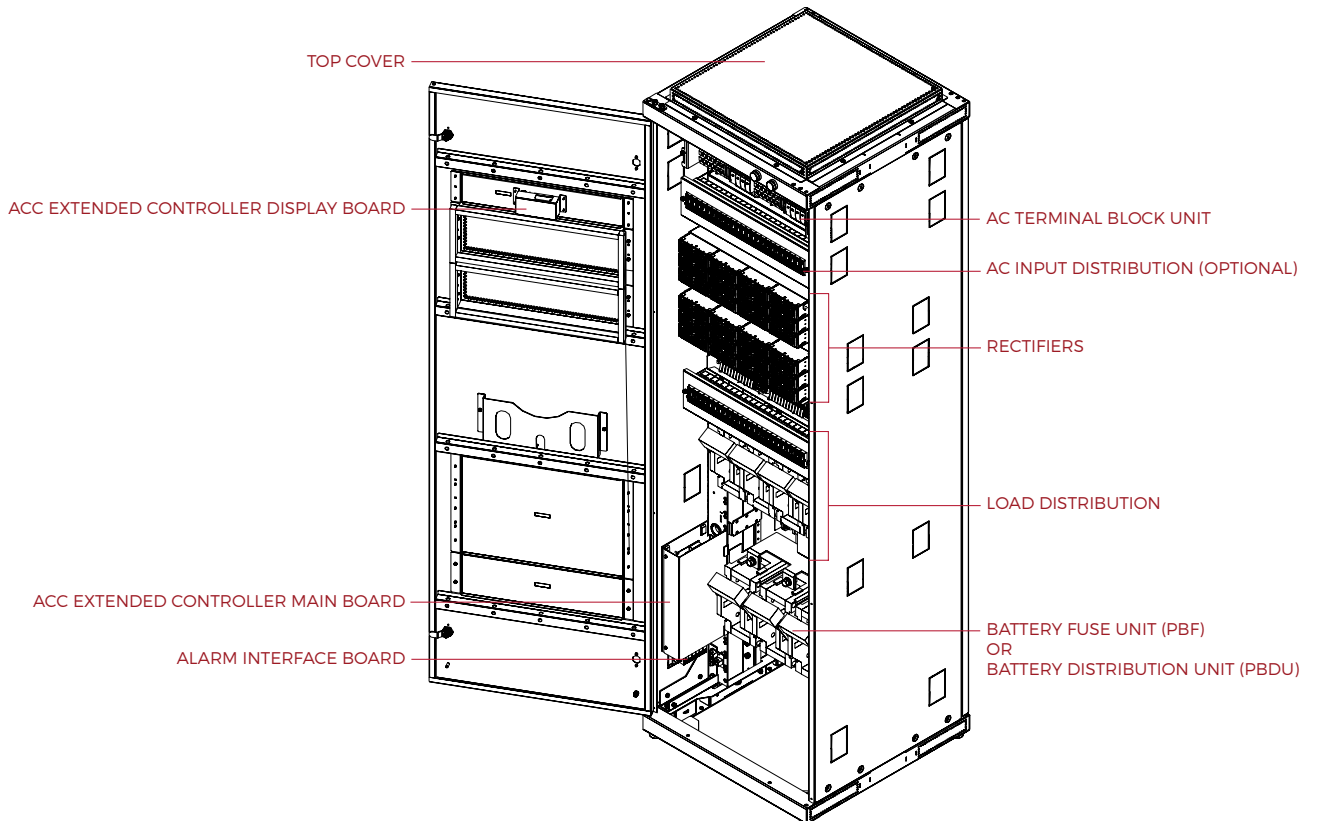
Notes:

1. Input currents shown are expected maximums at 180VAC.
2. May required reduction in maximum charge current when batteries not fully charged.
3. Rectifier model FMP25.48G is not a preferred model for new requirements. It remains available for existing programmes. Rectifier models FMP20.48 and FMPe30.48C is available in the Asia/Pacific (APAC) region only.

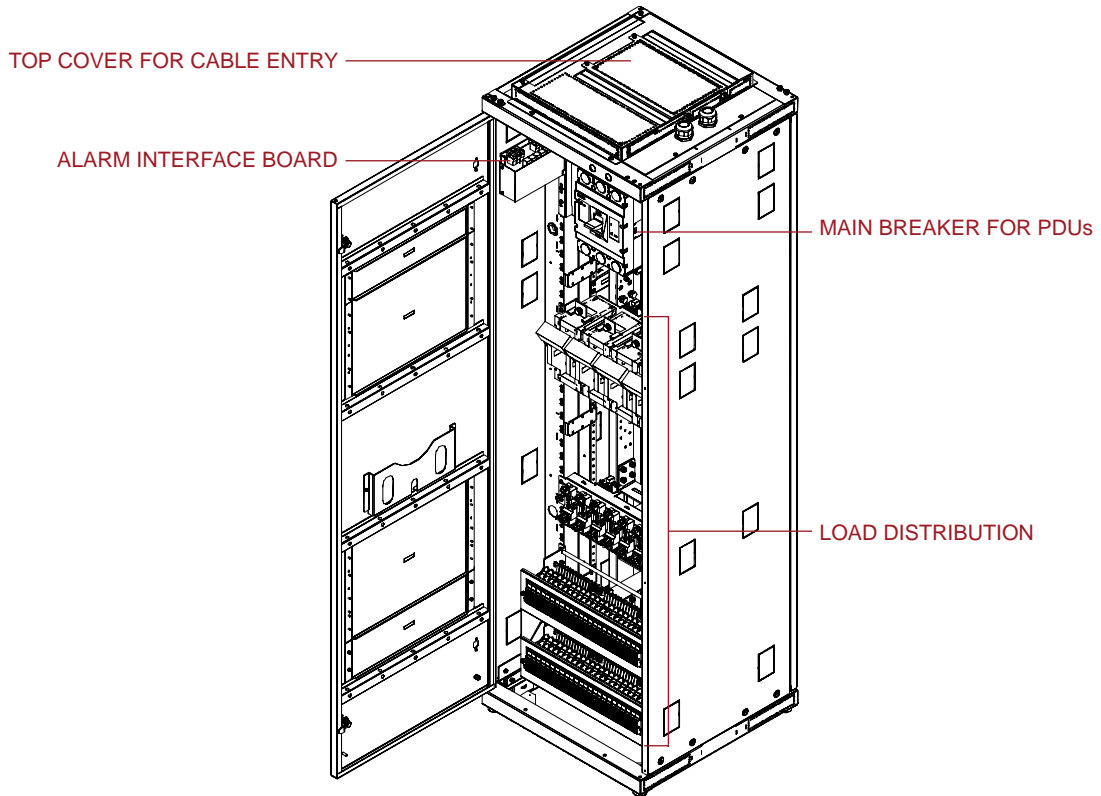
SYSTEM CABINET - TOP ENTRY



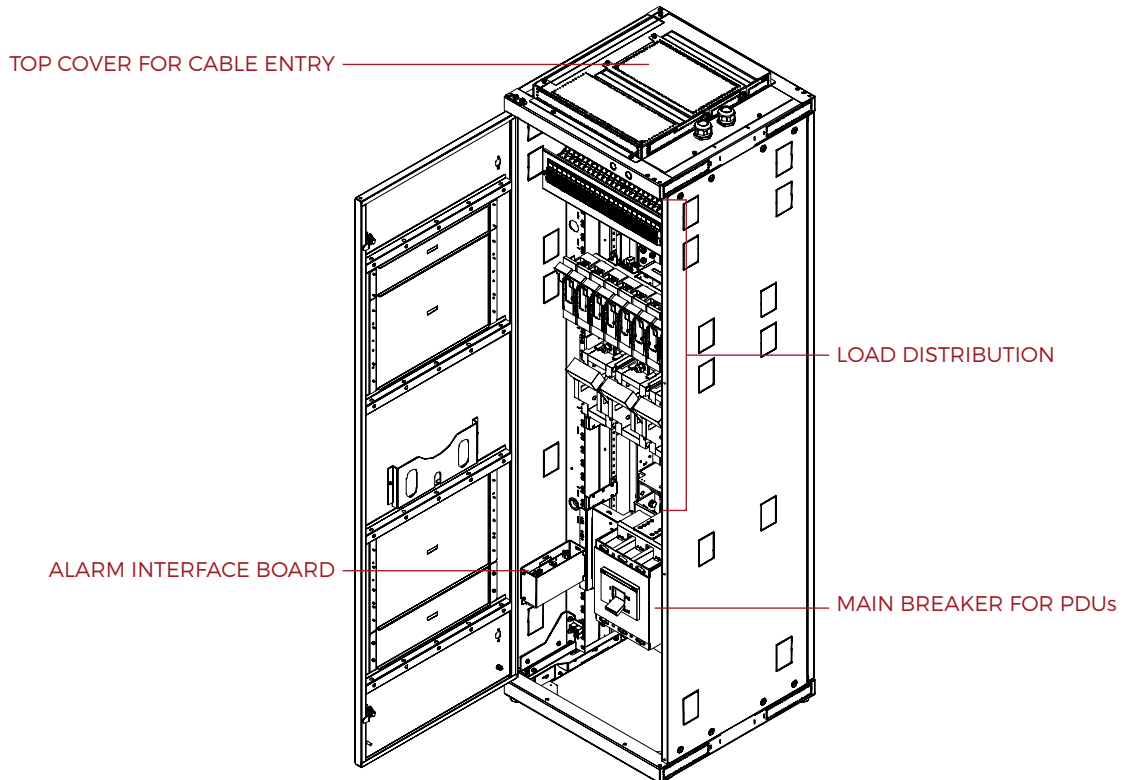
SYSTEM CABINET - BOTTOM ENTRY



DISTRIBUTION CABINET - TOP ENTRY



DISTRIBUTION CABINET - BOTTOM ENTRY



CONFIGURATION GUIDE

PLEASE COMPLETE THE BELOW TABLE AND SUBMIT TO UNIPOWER FOR VERIFICATION AND CONF. NO. ALLOCATION
 (This form is fully interactive and may be completed electronically OR it can be printed and complete by hand)

STEP 1 - CUSTOMER DETAILS		
Company: _____	Contact Name: _____	
Address: _____	Email Address: _____	
Zip Code: _____ Country: _____	Telephone: _____	
Quantity for quotation: _____		
MAIN CABINET (1 only allowed)		
STEP 2 - CABINET TYPE - Choose one version		
Top Entry or Bottom Entry	Top OR Bottom	
STEP 3 - RECTIFIER SHELVES - Choose quantity		
19" 4-Bay Shelf (1 to 6)	1 OR 2 OR 3 OR 4 OR 5 OR 6	
STEP 4 - RECTIFIER MODULES - Choose one type only and enter quantity between 1 and 24 - dummies will be inserted into unused slots		
FMP20.48 - 2000W - >95% Efficiency (APAC region only)	FMP20.48	
FMPe20.48G - 2000W - >96% Efficiency	OR FMPe20.48G	
FMP25.48C - 2500W - >92% Efficiency	OR FMP25.48C	
FMPe30.48G - 2900W - >95% Efficiency	OR FMPe30.48G	
FMPe30.48C - 2900W - >95% Efficiency (APAC region only)	OR FMPe30.48C	
Quantity ____ (# shelves in step 3 x 4 max.)		
STEP 5 - ALARM INTERFACE (ACC Extended Controller with SD Card Slot is standard)		
Alarm Interface - 4 Relays or 10 Relays	4 Relays OR 10 Relays	
STEP 6 - AC DISTRIBUTION - Choose YES or NO		
AC Distribution - 12-way with 1-3 shelves, 24-way with 4-6 shelves	Yes OR No	
STEP 7 - FACTORY FIT ACCESSORIES - Choose YES or NO		
Surge Suppression - 3-phase Class C	Yes OR No	
Operating Lamp	Yes OR No	
Battery Temperature Sensor	19'8" (6m) OR 32'10" (10m) OR 82' (25m)	
Symmetry Cables - End Measure (4 max.)	19'8" (6m) quantity ____ 32'10" (10m) quantity ____ 82' (25m) quantity ____	
OR	OR	
Mid Measure (3 max.)	19'8" (6m) quantity ____ 32'10" (10m) quantity ____ 82' (25m) quantity ____	
STEP 8 - BATTERY DISTRIBUTION & 1100A LVD - Choose one version only [PBDU with NH3 battery fuses also support load fuses as shown].		
OR PBF1 - 2 x MCCB 384A, 600A Shunt, 8U		
OR PBF1N - 2 x MCCB (NADER) 384A, 600A Shunt, 8U		
OR PBF2 - 4 x MCCB 384A, 1500A Shunt, 8U		
OR PBF2N - 4 x MCCB (NADER) 384A, 1500A Shunt, 8U		
OR PBF3 - 2 x MCCB 600A, 1500A Shunt, 8U		
OR PBF3N - 2 x MCCB (NADER) 600A, 1500A Shunt, 8U		
OR PBF4 - 1 x MCCB 1500A, 1500A Shunt, 11U		
OR PBF4N - 1 x MCCB (NADER) 1500A, 1500A Shunt, 11U		
OR PBF5 - 6 x NH3 Fuses, 1500A Shunt with LVD, 10U		
OR PBF6 - 3 x NH3 Fuses, 1500A Shunt with LVD, 10U		
OR PBF7 - 3 x NH3 Insulated Fuses, 1500A Shunt with LVD, 10U		
OR PBDU1 - 2 x MCCB 1500A, 1500A Shunt, 11U		
OR PBDU1N - 2 x MCCB (NADER) 1500A, 1500A Shunt, 11U		
OR PBDU2 - 2 x NH3 Fuses + 4 x NH00 Load Fuses, 1500A Shunt with LVD, 10U		
OR PBDU3 - 2 x NH3 Fuses + 4 x NH00 Load Insulated Fuses, 1500A Shunt with LVD, 10U		
OR PBDU4 - 2 x NH3 Fuses + 2 x NH2 Load Fuses, 1500A Shunt with LVD, 10U		
OR PBDU5 - 2 x NH3 Fuses + 2 x NH2 Load Insulated Fuses, 1500A Shunt with LVD, 10U		
STEP 9 - NH3 BATTERY FUSES - Choose one Manufacturer and Rating and then Quantity (maximum 2, 3 or 6 total). [Only applicable when PB6, PB7, PBDU2, PBDU3, PBDU4 or PBDU5 has been selected in step 8 above.]		
400A Siemens OR 400A EFEN (see manual for details)	Siemens Quantity ____	EFEN (insulated holder) Quantity ____
630A Siemens OR 630A EFEN (see manual for details)	Quantity ____	Quantity ____
STEP 10 - LOAD PDU OPTIONS - Choose PDUs to provide desired load distribution configurations. [The maximum available rack space is 15U total]		
Bulk Output PDUs (8U or 10U) - One maximum		
PDU-8U-1 - 2 x MCCB 384A, 8U	High Current Fuse PDUs (6U) - Two maximum	
OR PDU-8U-1N - 2 x MCCB (NADER) 384A, 8U	PDU-6U-1 - 8 x NH00 Fuses	Quantity ____
OR PDU-8U-2 - 4 x MCCB 384A, 8U	PDU-6U-2 - 8 x NH00 Insulated Fuses	Quantity ____
OR PDU-8U-2N - 4 x MCCB (NADER) 384A, 8U	Low/Mid Current Breaker PDUs (5U) - Three maximum	
OR PDU-8U-3 - 2 x MCCB 600A, 8U	PDU-5U-1 - 16 x 27mm MCBs	Quantity ____
OR PDU-8U-3N - 2 x MCCB (NADER) 600A, 8U	PDU-5U-2 - 8 x 27mm MCBs + 12 x 18mm MCBs	Quantity ____
OR PDU-10U-1 - 6 x NH3 Fuses, 10U	PDU-5U-3 - 24 x 18mm MCBs	Quantity ____
OR PDU-10U-2 - 3 x NH3 Fuses, 10U		
OR PDU-10U-3 - 3 x NH3 Insulated Fuses, 10U		
OR PDU-10U-4 - 4 x NH2 Fuses, 10U		
OR PDU-10U-5 - 4 x NH2 Insulated Fuses, 10U		

Go to next page to specify fuse and breaker ratings...

STEP 11 - SELECT NH00 LOAD FUSES UP TO 20 TOTAL (Requires PBDU2 or PBDU3 at step 8 or 6U PDU at step 10) Choose ALL Siemens or EFEN (insulated holder).		STEP 12 - SELECT NH02 LOAD FUSES UP TO 6 TOTAL (Requires PBDU4 or PBDU5 at step 8 or PDU-10U-4 or PDU-10U-5 at step 10) Choose ALL Siemens or EFEN (insulated holder).	
Siemens 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____	EFEN 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____	Siemens 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____	EFEN 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____
		STEP 13 - SELECT NH03 LOAD FUSES UP TO 6 (Requires PDU-10U-1, PDU-10U-2 or PDU-10U-3 at step 10) Choose ALL Siemens or EFEN.	
		Siemens 400A - Quantity ____ 630A - Quantity ____	EFEN 400A - Quantity ____ 630A - Quantity ____
STEP 14 - SELECT 18mm LOAD BREAKERS UP TO 72 TOTAL (Requires PDU-5U-2 or PDU-5U-3 at step 10)		STEP 15 - SELECT 27mm LOAD BREAKERS UP TO 48 TOTAL (Requires PDU-5U-1 or PDU-5U-2 at step 10)	
Single Pole (consume 1 position) 4A - Quantity ____ 6A - Quantity ____ 10A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 25A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ Two Pole (consume 2 positions) 10A - Quantity ____ 16A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ Three Pole (consume 3 positions) 10A - Quantity ____ 16A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____		Single Pole (consume 1 position) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____ 125A - Quantity ____ Two Pole (consume 2 positions) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____ 125A - Quantity ____ Three Pole (consume 3 positions) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____	
STEP 17 - SUBMIT COMPLETED FORM TO UNIPOWER FOR CHECKING AND ALLOCATION OF CONFIGURATION PART NUMBER			
Configuration Part Number: _____ (leave blank for completion by UNIPOWER)			

Please Note - Siemens and EFEN fuses / fuse holders are not cross-compatible.

EXTENSION CABINET (up to 4 allowed)		
STEP 1 - CABINET TYPE - Choose one version		
Top Entry or Bottom Entry	Top OR Bottom	Quantity ____
STEP 2 - PARALLELING KIT - Choose one option only		
No Kit	Bus Bar Kit (for cabinets installed side by side)	Cable Termination Kit (for cabinets not installed side by side)
STEP 3 - RECTIFIER SHELVES - Choose quantity		
19" 4-Bay Shelf (1 to 6)	1	OR 2 OR 3 OR 4 OR 5 OR 6
STEP 4 - RECTIFIER MODULES - Choose one type only and enter quantity between 1 and 24 - dummies will be inserted into unused slots		
FMP20.48 - 2000W - >95% Efficiency (APAC region only) FMPe20.48G - 2000W - >96% Efficiency FMP25.48G - 2500W - >92% Efficiency FMPe30.48G - 2900W - >95% Efficiency FMPe30.48C - 2900W - >95% Efficiency (APAC region only)	FMP20.48 OR FMPe20.48G OR FMP25.48G OR FMPe30.48G OR FMPe30.48C	Quantity ____ (# shelves in step 3 x 4 max.)
STEP 5 - AC DISTRIBUTION - Choose YES or NO		
AC Distribution - 12-way with 1-3 shelves, 24-way with 4-6 shelves	Yes	OR No
STEP 6 - FACTORY FIT ACCESSORIES - Choose YES or NO		
Surge Suppression - 3-phase Class C	Yes	OR No
Operating Lamp	Yes	OR No
Battery Temperature Sensor	19'8" (6m)	OR 32'10" (10m) OR 82' (25m)
Symmetry Cables - End Measure (4 max.)	19'8" (6m) quantity ____	32'10" (10m) quantity ____ 82' (25m) quantity ____
OR	OR	
Mid Measure (3 max.)	19'8" (6m) quantity ____	32'10" (10m) quantity ____ 82' (25m) quantity ____
STEP 7 - BATTERY DISTRIBUTION & LVD - Choose one version only [PBDU with NH3 battery fuses also support load fuses as shown].		
PBF1 - 2 x MCCB 384A, 600A Shunt, 8U OR PBFIN - 2 x MCCB (NADER) 384A, 600A Shunt, 8U OR PBF2 - 4 x MCCB 384A, 1500A Shunt, 8U OR PBF2N - 4 x MCCB (NADER) 384A, 1500A Shunt, 8U OR PBF3 - 2 x MCCB 600A, 1500A Shunt, 8U OR PBF3N - 2 x MCCB (NADER) 600A, 1500A Shunt, 8U OR PBF4 - 1 x MCCB 1500A, 1500A Shunt, 11U OR PBF4N - 1 x MCCB (NADER) 1500A, 1500A Shunt, 11U OR PBF5 - 6 x NH3 Fuses, 1500A Shunt with LVD, 10U OR PBF6 - 3 x NH3 Fuses, 1500A Shunt with LVD, 10U OR PBF7 - 3 x NH3 Insulated Fuses, 1500A Shunt with LVD, 10U OR PBDU1 - 2 x MCCB 1500A, 1500A Shunt, 11U OR PBDU1N - 2 x MCCB (NADER) 1500A, 1500A Shunt, 11U OR PBDU2 - 2 x NH3 Fuses + 4 x NH00 Load Fuses, 1500A Shunt with LVD, 10U OR PBDU3 - 2 x NH3 Fuses + 4 x NH00 Load Insulated Fuses, 1500A Shunt with LVD, 10U OR PBDU4 - 2 x NH3 Fuses + 2 x NH2 Load Fuses, 1500A Shunt with LVD, 10U OR PBDU5 - 2 x NH3 Fuses + 2 x NH2 Load Insulated Fuses, 1500A Shunt with LVD, 10U		
STEP 8 - NH3 BATTERY FUSES - Choose one Manufacturer and Rating and then Quantity (maximum 2, 3 or 6 total). [Only applicable when PB6, PB7, PBDU2, PBDU3, PBDU4 or PBDU5 has been selected in step 7 above.]		
400A Siemens OR 400A EFEN (see manual for details)	Siemens Quantity ____	EFEN (insulated holder) Quantity ____
630A Siemens OR 630A EFEN (see manual for details)	Quantity ____	Quantity ____
STEP 9 - LOAD PDU OPTIONS - Choose PDUs to provide desired load distribution configurations. [The maximum available rack space is 15U total]		
Bulk Output PDUs (8U or 10U) - One maximum	High Current Fuse PDUs (6U) - Two maximum	
PDU-8U-1 - 2 x MCCB 384A, 8U	PDU-6U-1 - 8 x NH00 Fuses	Quantity ____
OR PDU-8U-1N - 2 x MCCB (NADER) 384A, 8U	PDU-6U-2 - 8 x NH00 Insulated Fuses	Quantity ____
OR PDU-8U-2 - 4 x MCCB 384A, 8U	Low/Mid Current Breaker PDUs (5U) - Three maximum	
OR PDU-8U-2N - 4 x MCCB (NADER) 384A, 8U	PDU-5U-1 - 16 x 27mm MCBs	Quantity ____
OR PDU-8U-3 - 2 x MCCB 600A, 8U	PDU-5U-2 - 8 x 27mm MCBs + 12 x 18mm MCBs	Quantity ____
OR PDU-8U-3N - 2 x MCCB (NADER) 600A, 8U	PDU-5U-3 - 24 x 18mm MCBs	Quantity ____
OR PDU-10U-1 - 6 x NH3 Fuses, 10U		
OR PDU-10U-2 - 3 x NH3 Fuses, 10U		
OR PDU-10U-3 - 3 x NH3 Insulated Fuses, 10U		
OR PDU-10U-4 - 4 x NH2 Fuses, 10U		
OR PDU-10U-5 - 4 x NH2 Insulated Fuses, 10U		

Go to next page to specify fuse and breaker ratings...

Note about selecting paralleling kits.

When cabinets are installed side by side we recommend the Bus Bar Paralleling Kit.

When cabinets are not installed side by side we recommend the Cable Termination Kit. This kit contains hardware for terminating cables which must be provided by the installer.

STEP 10 - SELECT NH00 LOAD FUSES UP TO 20 TOTAL (Requires PBDU2 or PBDU3 at step 7 or 6U PDU at step 9) Choose ALL Siemens or EFEN (insulated holder).		STEP 11 - SELECT NH02 LOAD FUSES UP TO 6 TOTAL (Requires PBDU4 or PBDU5 at step 7 or PDU-10U-4 or PDU-10U-5 at step 9) Choose ALL Siemens or EFEN (insulated holder).	
Siemens 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____	EFEN 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____	Siemens 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____	EFEN 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____
		STEP 12 - SELECT NH03 LOAD FUSES UP TO 6 TOTAL (Requires PDU-10U-1, PDU-10U-2 or PDU-10U-3 at step 9) Choose ALL Siemens or EFEN.	
		Siemens 400A - Quantity ____ 630A - Quantity ____	EFEN 400A - Quantity ____ 630A - Quantity ____
STEP 13 - SELECT 18mm LOAD BREAKERS UP TO 72 TOTAL (Requires PDU-5U-2 or PDU-5U-3 at step 9)		STEP 14 - SELECT 27mm LOAD BREAKERS UP TO 48 TOTAL (Requires PDU-5U-1 or PDU-5U-2 at step 9)	
Single Pole (consume 1 position) 4A - Quantity ____ 6A - Quantity ____ 10A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 25A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ Two Pole (consume 2 positions) 10A - Quantity ____ 16A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ Three Pole (consume 3 positions) 10A - Quantity ____ 16A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____		Single Pole (consume 1 position) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____ 125A - Quantity ____ Two Pole (consume 2 positions) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____ 125A - Quantity ____ Three Pole (consume 3 positions) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____	
STEP 15 - SUBMIT COMPLETED FORM TO UNIPOWER FOR CHECKING AND ALLOCATION OF CONFIGURATION PART NUMBER			
Configuration Part Number: _____ (leave blank for completion by UNIPOWER)			

Please Note - Siemens and EFEN fuses / fuse holders are not cross-compatible.

Note about selecting paralleling kits for the Load Distribution Cabinet.

When cabinets are installed side by side we recommend the Bus Bar Paralleling Kit.

When cabinets are not installed side by side we recommend the Cable Termination Kit. This kit contains hardware for terminating cables which must be provided by the installer.

LOAD DISTRIBUTION CABINET							
STEP 1 - CABINET TYPE - Choose one version							
Top Entry or Bottom Entry		Top OR Bottom	Quantity ____				
STEP 2 - PARALLELING KIT - Choose one option only							
No Kit		Bus Bar Kit (for cabinets installed side by side) Cable Termination Kit (for cabinets not installed side by side)					
STEP 2 - LOAD PDU OPTIONS - Choose PDUs to provide desired load distribution configurations. [The maximum available rack space is 15U total]							
Bulk Output PDUs (8U or 10U) - One maximum PDU-8U-1 - 2 x MCCB 384A, 8U OR PDU-8U-1N - 2 x MCCB (NADER) 384A, 8U OR PDU-8U-2 - 4 x MCCB 384A, 8U OR PDU-8U-2N - 4 x MCCB (NADER) 384A, 8U OR PDU-8U-3 - 2 x MCCB 600A, 8U OR PDU-8U-3N - 2 x MCCB (NADER) 600A, 8U OR PDU-10U-1 - 6 x NH3 Fuses, 10U OR PDU-10U-2 - 3 x NH3 Fuses, 10U OR PDU-10U-3 - 3 x NH3 Insulated Fuses, 10U OR PDU-10U-4 - 4 x NH2 Fuses, 10U OR PDU-10U-5 - 4 x NH2 Insulated Fuses, 10U		High Current Fuse PDUs (6U) - Two maximum PDU-6U-1 - 8 x NH00 Fuses Quantity ____ PDU-6U-2 - 8 x NH00 Insulated Fuses Quantity ____ Low/Mid Current Breaker PDUs (5U) - Three maximum PDU-5U-1 - 16 x 27mm MCBs Quantity ____ PDU-5U-2 - 8 x 27mm MCBs + 12 x 18mm MCBs Quantity ____ PDU-5U-3 - 24 x 18mm MCBs Quantity ____					
STEP 3 - SELECT NH00 LOAD FUSES UP TO 16 TOTAL (Requires 6U PDU at step 2) Choose ALL Siemens or EFEN (insulated holder).		STEP 4 - SELECT NH02 LOAD FUSES UP TO 4 TOTAL (Requires PDU-10U-4 or PDU-10U-5 at step 2) Choose ALL Siemens or EFEN (insulated holder).					
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-right: 1px solid black;"> Siemens 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____ </td> <td style="width:50%;"> EFEN 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____ </td> </tr> </table>		Siemens 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____	EFEN 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____	<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-right: 1px solid black;"> Siemens 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____ </td> <td style="width:50%;"> EFEN 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____ </td> </tr> </table>		Siemens 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____	EFEN 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____
Siemens 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____	EFEN 6A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 32A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ 100A - Quantity ____ 160A - Quantity ____						
Siemens 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____	EFEN 200A - Quantity ____ 315A - Quantity ____ 400A - Quantity ____						
		STEP 5 - SELECT NH03 LOAD FUSES UP TO 6 TOTAL (Requires PDU-10U-2 or PDU-10U-3 at step 2) Choose ALL Siemens or EFEN.					
		<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:50%; border-right: 1px solid black;"> Siemens 400A - Quantity ____ 630A - Quantity ____ </td> <td style="width:50%;"> EFEN 400A - Quantity ____ 630A - Quantity ____ </td> </tr> </table>		Siemens 400A - Quantity ____ 630A - Quantity ____	EFEN 400A - Quantity ____ 630A - Quantity ____		
Siemens 400A - Quantity ____ 630A - Quantity ____	EFEN 400A - Quantity ____ 630A - Quantity ____						
STEP 12 - SELECT 18mm LOAD BREAKERS UP TO 72 TOTAL (Requires PDU-5U-2 or PDU-5U-3 at step 2)		STEP 13 - SELECT 27mm LOAD BREAKERS UP TO 48 TOTAL (Requires PDU-5U-1 or PDU-5U-2 at step 2)					
Single Pole (consume 1 position) 4A - Quantity ____ 6A - Quantity ____ 10A - Quantity ____ 16A - Quantity ____ 20A - Quantity ____ 25A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ Two Pole (consume 2 positions) 10A - Quantity ____ 16A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____ Three Pole (consume 3 positions) 10A - Quantity ____ 16A - Quantity ____ 32A - Quantity ____ 40A - Quantity ____ 50A - Quantity ____ 63A - Quantity ____		Single Pole (consume 1 position) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____ 125A - Quantity ____ Two Pole (consume 2 positions) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____ 125A - Quantity ____ Three Pole (consume 3 positions) 63A - Quantity ____ 80A - Quantity ____ 100A - Quantity ____					
STEP 14 - SUBMIT COMPLETED FORM TO UNIPOWER FOR CHECKING AND ALLOCATION OF CONFIGURATION PART NUMBER							
Configuration Part Number: _____ (leave blank for completion by UNIPOWER)							