

# PWR1200

## SYSTEM FOR ELIMINATING SHORT ELECTRICAL DISTURBANCES



The PWR1200 can work alongside emergency generator units in a configuration that allows the total elimination of long and short interruptions in supply, eliminating zero crossings and with the best economic conditions.

The PWR1200 is a powerful electronic unit designed to provide loads with controlled power under all load and input supply conditions.

It is a system designed to eliminate short electrical disturbances, overvoltages, brief supply interruptions and is a gap filler for critical industrial and control processes.

The PWR1200 has been designed as an emergency system application in industrial environments in order to eliminate voltage interruptions and gaps.

The main function of three PWR1200 system is to ensure the continuity of the power supply in industrial processes in which reliability is essential.



DIMENSIONS	200KVA	400KVA	600KVA	800KVA	1200KVA
<b>ELECTRONICAL CABINET</b>					
Normal Height / with breaker (mm)	2445 / 2530	2445 / 2530	2445 / 2530	2445 / 2530	2445 / 2530
Width(mm)	1210	1620	2435	2435	3250
Depth (mm)	640	640	640	640	640
Weight (Kg)	650	950	1345	1575	1975
<b>BATTERY CABINET WITHOUT VENTILATION</b>					
Height (mm)	2145	2145	2145	2145	2145
Width (mm)	1055	2x1055	3x1055	3x1055	5x1055
Depth(mm)	825	825	825	825	825
Weight (Kg)	1725	2x1725	3x1725	3x2175	5x2175
<b>BATTERY CABINET WITH VENTILATION</b>					
Height(mm)	2510	2510	2510	2510	2510
Width (mm)	1065	2x1065	3x1065	3x1065	5x1065
Depth(mm)	940	940	940	940	940
Weight (Kg)	1775	2x1775	3x1775	3x2225	5x2225



GENERAL SPECIFICATIONS	
<b>INPUT</b>	
Output voltage (programmable)	380 VAC ± 1%
Total performance	>99% under any load condition
Overload	120% permanent working
UPS climate conditioning	Not required
Maintenance By-pass	Yes
Emergency power unit	Does not declassify the emergency power unit
Regulating the output voltage with load between 0 and 100%	1%
Regulating the output frequency	200 ppm
Nominal output power, power factor = 1	200kW x Number of inverters
Insulation test for 60 sec	2.5 kV
Housing protection	IP20
Storage ambient temperature	0-85°C (excluding battery)
Permitted relative humidity	0-85°C (excluding battery)
Maximum altitude over sea level	<2000 m.
Admissible voltage range (three-phase)	304 +456 VAC
Admissible frequency	50/60 Hz ± 10%
Harmonic distortion	Does not generate Harmonic Distortion
<b>OUTPUT</b>	
Admissible voltage range (three-phase)	304 +456 VAC
Admissible frequency	50/60 Hz (programmable)
Harmonic distortion	Does not generate Harmonic Distortion
<b>CHARGER</b>	
Load Management	IUA
Temperature compensation	Yes
<b>BATTERIES</b>	
Number of branches	1 to 3
Number of monoblocs (12VDC)	56
Nominal battery voltage (VDC)	672
Battery type (Ah)	Watertight Pb, open Pb or NiCd
Battery current ripple	0 Amps in permanent operating mode
Autonomy	5 minutes at full load (FP = 0.8)
Element Monitor	Detection of polarity inversion per monobloc (optional)
Service life diagnosis	Emergency cycle counter
Air conditioned battery cabinets	Optional
<b>INVERTERS</b>	
Active Redundance	Without ageing (status of normally inactive inverters)
Wave form	Sinusoidal
Frequency	50/60 Hz ± 5% (AC) 50/60 Hz ± 0.05% (Battery)
Crest factor	3:1
Output voltage distortion (THD)	< 1,5%
Phase displacement with balanced load	< 1%
Phase displacement with 100% unbalanced load	< 1%
Voltage tolerances in static with balanced load	< 1%
Voltage tolerances in static mode with unbalanced load	< 1%
Voltage tolerances in dynamic mode with 50% load step	< 3%
Voltage tolerances in dynamic mode with 100% load step	< 3%
Transitory voltage recovery period	< 1 msec
Short-circuit current	1.2 x In
Maximum frequency range for synchronising inverter with electrical current	2 Hz
Maximum frequency variation during synchronisation	1 Hz
Active power (PF   1.0)	200
<b>By-PASS</b>	
Active Redundance	N +1 (optional)
Overload	120%
<b>PROTECTIONS</b>	
Voltage Pulses	Non degradable. Operation threshold VN x 1,1. Power> 900 jules
Against Short-Circuit	Yes (permanent)
Current limitation	Yes
Overload	Yes
Manual and static By-pass	Yes
Frequency 50/60Hz	Yes
RFI Filter	Yes
Battery charger protection	Yes
Required disconnections	Yes
<b>COMMUNICATIONS</b>	
Local and remote	TCP/IP, MODEM RTC or GSM/GPRS
<b>STANDARDS</b>	
Marking	CE, GOST, TSE-HYB
Safety	IEC EN 62040-1
Test & Performance	IEC EN 62040-3
Quality & Environment	ISO 9001:2008, ISO 14001:2004

