

HIGH FREQUENCY PFC CORRECTED RECTIFIER

HIGH FREQUENCY PFC CORRECTED RECTIFIER

HOT PLUG&PLAY INDUSTRIAL MODULAR DC SYSTEMS

48/110/125/220V DC

PMIGESS Modular DC Uninterruptable Power System has been designed for industrial applications; oil&gas, power generation, telecom, chemical industries and industrial process control.

MODULAR DC SYSTEM has been developed to withstand harsh environment and operating conditions of Industrial applications with state of the art technology using PFC modules and IGBT Modules to provide reliable solutions with high MTBF.

Applications

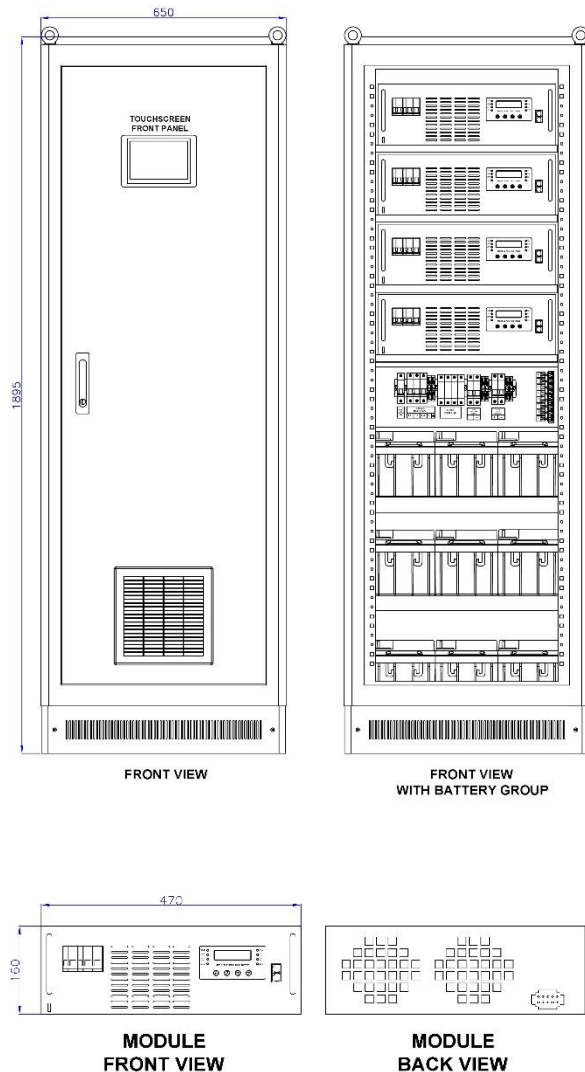
- Power Generations
- Power Utility
- Oil&Gas
- Chemical Industries
- Telecom

Main Features

- LCD display and data interface for monitoring
- Single, N+1 and N+N configurations
- Hot plug&Play power modules for easy replacement
- Scalability for future power growth
- High Input Power factor ≥ 0.99
- Low Input Current Harmonics (THDi) $\leq 5\%$
- Wide DC voltage range for Ni-cad Batteries
- High Efficiency $\geq 93\%$
- DC output ripple $\leq 1\%$
- Active Load Sharing

Main Options

- Dropper Output Voltage Protection
- LVD Low Voltage disconnect
- RS-232/RS-485/Ethernet Port / SNMP/WEB Interface
- Remote Control Software
- Built-in DC Distribution
- Built-in Battery Bank
- Higher Protection Degrees
- Temperature Compensated Battery Charging
- Special Cabinet Colours
- Additional Analog Meters
- DC Earth Fault Monitoring
- Top Cable Entry
- Free Alarm Relay Contacts



HIGH FREQUENCY PFC CORRECTED RECTIFIER

HOT PLUG&PLAY HIGH FREQUENCY PFC CORRECTED IGBT RECTIFIER

DC TECHNICAL DATA

General				
DS System Voltage (V)	48V	110V	125V	220V
Module Rating(A)	60A	30A	30A	20A
N+1 Module Rating(A)	300A	150A	150A	100A
Single Module Power(W)	2880W	3300W	3750W	4400W
Input				
Input Voltage	220/230/240VAC 1-Phase±10% 380/400/415VAC 3-Phase±10% 50/60Hz ±5%			
Power Factor/Input THDi	0,99 @50%-100%Load/ THDi<5% @100%Load			
Output				
DC Voltage Range(V)	40-60VDC	90-160VDC	90-160VDC	180-280VDC
Operating Battery Voltage	Floating:2.27(VLRA),2.2÷2.3(VLA),1.4÷1.5(Ni-Cd)V/cell adjustable Boost:2.4÷2.45(VLA),1.5÷1.65(Ni-Cd)V/cell adjustable			
Module Alarm LED Indication	Load on Rectifier, On Battery, Current Mode, Low Battery, Line Fail, IGBT Fail, Over Temperature, Rectifier Failure			
Module User Interface	Front Panel: LCD Display, Keyboard			
Module Dimensions(HxWxD)	160x470x530mm			
Module Input/Output Protection	Thermic Magnetic Short Circuit Breaker(MCB)			
System				
Cooling	Forced Fan Controlled Cooled Modules			
Color	RAL7035			
Protection Class (IEC 60529)	IP21(standard)			
Modules Shelf Cabinet Protection (IEC 60529)	IP21(standard)(optional IP42-54)			
Output Ripple	<1% @Full load			
Efficiency	>92%@Full load		>94%@Full load	
Environmental				
Operating Temperature	-10°C÷+40°C(optional up to 55°C with derating)/St			
Altitude	<2000M(derating according to EN 62040-3)			
Audible Noise at 1 meter (dBA)	≤65			
Input/Output Galvanic Isolation	2000VAC/DC			
Modules Shelf Cabinet Dimensions (HxWxD)	1950x650x700mm			
Modules Monitoring HMI Standards	7" TFT Touch Screen Test and performance: IEC EN 60146-1-1			

