

PL / GC SERIES INDUSTRIAL AC UPS SYSTEM

Product Description

PL/GC Series Industrial AC Uninterruptible Power Supplies, with advanced online, double conversion technology to provide regulated and uninterrupted power to critical loads. UPS System is designed in modular block structure with Rectifier, Inverter and Static Transfer Switch, where each main block is monitored and controlled separately by DSP (Digital Signal Processor) controller. It provides AC power which is critical for Industrial, Medical and Computer applications.





Key Features

- DC or AC, or DC and AC inputs
- Input and output 50Hz, 60Hz, 831/3Hz, 400Hz frequency optional
- Galvanic Isolation / Output isolation transformer
- Intelligent Power Module or IGBT technology
- Full controlled conventional rectifier (Thyristor base)
- Smart control and high reliability with DSP (Digital Signal Processor)
- Float charge, equalizing charge and boost charge selections in Automatic and manual charge modes
- 2x16 character LCD display & Audible alarm, showing measurements, status and alarm messages
- High efficiency, Low output distortion factor
- Calibration of measurements from front panel
- Language selection from front panel (English / German / Turkish / Dutch / Portuguese)
- Input Voltage Low / High, Line Failure, Over Temperature and Short Circuit protections
- Ability to program all operation parameters (password protected)
- Monitor and control over RS232 or *RS485 Modbus communication. *Option

Technical Specifications



Model		3H	KVA -	- 60K	VA		60KVA – 400KVA							
INPUT														
Input Voltage (Vac)	110V / 115V / 208V / 220V / 240V (*Other voltages upon request)3 x								x 190 / 200 / 360 / 380 / 415 Vac Phase to Phase or N (*Other voltages upon request)					
Input Voltage (Vdc)	40 - 70 Vdc / 80 - 160 Vdc / 160 - 260 Vdc / 300 - 450 Vdc							260 - 300 Vdc / 300 - 450 Vdc / 400 - 650 Vdc						
Input Voltage Tolerance	+15 % / -10 %													
Maximum Input Voltage							± 2	20 %						
Frequency					50Hz	/ 60H	z / *4()0Hz (u	pon req	uest)				
Frequency Tolerance							±	10 %		-				
Rectifier Type	6 or 12 pulse Thyristor / IGBT Controlled													
Isolation Transformer					Stan	lard (e	except	400Vdc	Rectif	iers)				
OUTPUT														
Output Voltage	115 / 200 to 120 / 208 Vac - 220 / 380 Vac to 240 / 440 Vac with or without Neutral; 110 Vac + N / 220 Vac + N													
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	300	400	
Power (kW)	8	12	16	24	32	48	64	80	96	128	160	240	320	
Voltage Stability	± 1%													
Rectification Time	Max 25ms. After Boost Charge													
Frequency	50Hz - 1000Hz (on-demand)													
Frequency Tolerance	+ 2% (synchronized) adjustable, 0.01 (free run)													
Efficiency (Diff. DC Nominal)	87% - 91% / 90% - 95%													
Total Harmonic Distortion	< 3% @ linear load < 5% @ non-linear load													
Power Factor	0.8													
Crest Factor	3:1													
Overload	110% - 125% @ 10mins. / 125% - 150% @ 1 min. / >150% load: by-pass													
Short-Circuit Protection	Electronic Short Circuit Protection													
Technology						Spa	ce Ve	ctor Cor	ntrol					
DIGITAL DISPLAYS	r													
LCD Display	Output Voltage & Current / Input Voltage / DC Bus Voltage / Inverter Frequency (Output Frequency) / Load Percentage / Load powering up status													
Alarm Notifications (LCD)			Overlo	ad / A	bnorm	al AC	Input	/ IGBT	Fault /	Over T	empera	ture		
LED Display	Overload / Abnormal AC Input / IGBT Fault / Over Temperature Input OK / Operation / Common Alarm													
Communication and Remote Monitoring	2 pieces of programmable isolated dry contact information													
Control and Monitoring	Modbus through isolated RS232 / RS485 serial port													
Dry Contact Information	Contact 1 : Programmable													
	Contact 2 : Programmable													
SYSTEM DATA								0						
Internal & External Protection Degree						IP 20	to IP	55 (Opt	ional)					
Cable Entry	Bottom													
Access	Front Access													
System Design Life	> 15 Years													
System Conformance	EMC 50091-2; EN 50091-1; EN62040-1, -2													
ENVIRONMENTAL DATA							·							
Operating Temperature	Operating Temperature - 10°C to + 50°C													
Storage Temperature								ure - 20°						
Relative Humidity				Rel				90% (N			g)			
Operating Altitude								Max. 20						
PL/GC Series 1 & 3 Phase Industrial AC UPS powe			o o ificati -							/				