PPXi SERIES

RANGE : 10 KVA TO 800 KVA (3:3)

IGBT BASED UPS SYSTEM
Built In Transformer Design

MEDICAL
INDUSTRY
EMERGENCY
ANALYTICAL EQUIPMENTS
DATA CENTER



READY

FEATURES

- Online Double-Conversion With Full DSP Control
- IGBT Rectifier Inverter With Output Isolation Transformer
- 100% Unbalanced Load Capability
- Generator Compatible
- ECO Mode Operation for Energy Saving
- Standard Emergency Power Off (EPO)
- Standard RS 232, RS 485, and Dry Contacts Communication Ports
- 7-Inch Lcd Touch Screen With User-Friendly Interface

The PPXi Series UPS features an AC-DC-AC converter with a three-phase IGBT controlled rectifier for stable power conversion, which also functions as a charger. It switches between main and bypass circuits depending on their source alignment and can supply battery power during AC faults. The system employs full digital control with dual-DSP chips for advanced management, easy debugging, and communication. The 10-120 kVA UPS has 384 VDC, and models above 160 kVA feature a 600 Volt DCBUS. The PPXi Series offers extended backup capability without compromising overall efficiency. Additionally, it provides cold start options without mains power and comprehensive monitoring via RS232, RS485, and LCD to oversee system status, log faults, and facilitate communication with external systems.

TECHNICAL SPECIFICATIONS

Three Phase Input - Three Phase Output

MODEL	PPXi 10	PPXi 15	PPXi 20	PPXi 30	PPXi 40	PPXi 60	PPXi 80	PPXi 100	PPXi 120
CAPACITY	**10KVA**	**15KVA**	**20KVA**	**30KVA**	**40KVA**	**60KVA**	**80KVA**	**100KVA**	**120KVA**
INPUT									
Rated Voltage	380 / 400 / 415 VAC								
Voltage Range	280 V ~ 480V								
Rated Frequency	50 /60 Hz								
Frequency Range	(50 /60) ± 5 Hz								
Power Factor	≥ 0.99								
Total harmonic distortion (THDi)	≤ 3%								
Delayed start of rectifier	10s (1 ~ 300 settable)								
Bypass voltage range	± 20% (settable)								
OUTPUT									
Output Wiring	Three - Phase five wire (3Φ + N + PE)								
Rated Voltage	380 / 400 / 415 VAC								
Output Voltage Regulation	± 1%								
Output Frequency Regulation	50 /60 Hz ± 0.1% in battery mode								
Waveform	Sinusoidal								
Power Factor	0.9								
Voltage Distortion (THDv)	≤1% (linear load), ≤ 5% (non - linear load)								
Crest Factor	3:1								
Overload	105%~110% for 60 min, 110%~125% for 10 min, 150% for 1 min								
DC INPUT									
DC Voltage	Lead Acid Battery : 360 Vdc Upto 20 kVA, 30 kVA and above 600 Vdc								
Number of Batteries	12 V, 30 Pcs					12 V, 50 Pcs			
Charging Current	Settable As per Battery Type								
SYSTEM									
Efficiency	Up to 94.5%; ECO mode: ≥ 98%								
Max. number of parallel connections	8								
Protections	Short-Circuit, Overload, Overvoltage, Undervoltage. Low Battery, Overtemperature, Fan Failure								
Communications	RS232/RS485 / Dry Contacts (standard), SNMP (optional)								
OTHERS									
Operating temperature	0 - 50°C								
Storage temperature	-25°C - 70°C (without battery)								
Relative humidity	0 - 95% (non-condensing)								
Altitude	≥1000 m (derating 1% for each additional 100 m)								
IP rating	IP20/21								
Noise level at 1m	< 60 dB			< 65 dB			< 65 dB		
Dimensions (W x D x H) mm	400 x 800 x 1000			600 x 700 x 1500			700 x 800 x 1700		
Pack Dimensions	490 x 920 x 1300			700 x 800 x 1650			800 x 900 x 1850		
Net weight (kg)	158	165	175	210	260	460	590	630	690
Gross weight (kg)	200	207	217	252	302	480	620	660	720

TECHNICAL SPECIFICATIONS

Three Phase Input - Three Phase Output

MODEL	PPXi 160	PPXi 200	PPXi 250	PPXi 300	PPXi 400	PPXi 500	PPXi 600	PPXi 800
CAPACITY	**160KVA**	**200KVA**	**250KVA**	**300KVA**	**400KVA**	**500KVA**	**600KVA**	**800KVA**
INPUT								
Rated Voltage	380 / 400 / 415 VAC							
Voltage Range	280 V ~ 480V							
Rated Frequency	50 /60 Hz							
Frequency Range	(50 /60) ± 5 Hz							
Power Factor	≥ 0.99							
Total harmonic distortion (THDi)	≤ 3%							
Delayed start of rectifier	10s (1 ~ 300 settable)							
Bypass voltage range	± 20% (settable)							
OUTPUT								
Output Wiring	Three - Phase five wire (3Φ + N + PE)							
Rated Voltage	380 / 400 / 415 VAC							
Output Voltage Regulation	± 1%							
Output Frequency Regulation	50 /60 Hz ± 0.1% in battery mode							
Waveform	Sinusoidal							
Power Factor	0.9							
Voltage Distortion (THDv)	≤ 2% (linear load), ≤ 5% (non - linear load)							
DC INPUT								
DC Voltage	Lead Acid Battery : 600 Vdc, Lithium Iron Phosphate Battery: 614.4 Vdc							
Number of Batteries	Lead Acid Battery: 12 V x 50pcs (48 ~ 50 pcs settable)							
Charging Current	Lead Acid Battery: 2 V X 300pcs (288 ~ 300 Pcs Settable) Lithium Iron Phosphate Battery: 3.2 V X 192 Pcs (192/208 Pcs Settable) Charging Rate (Settable) X Battery Capacity(Settable) X Number Of Battery Groups (Settable)							
SYSTEM								
Efficiency	Up to 94.5%; ECO mode: ≥ 98%							
Max. number of parallel connections	8							
Protections	Short-Circuit, Overload, Overvoltage, Undervoltage. Low Battery, Overtemperature, Fan Failure							
Communications	Standard configuration: RS232, RS485, dry contacts , SNMP card, Temperature Compensation, SMS alarms							
Display	7 Inches LCD Touch Screen + LED							
OTHERS								
Operating temperature	0 - 50°C							
Storage temperature	-25°C - 70°C (without battery)							
Relative humidity	0 - 95% (non-condensing)							
Altitude	≥1000 m. Above 1000 m, derating 1% for each additional 100 m							
IP rating	IP20 / 21							
Noise level at 1m	< 65 dB				< 68 dB		<70 dB	
Dimensions (W x D x H) mm	800 x 860 x 1700		1210 x 860 x 1950		2380x 860 x 1950		2600 x 860 x 1950	
Net weight (kg)	790	185	1275	1355	2090	2300	2600	
Gross weight (kg)	840	1200	1340	1420	2200	2410	2720	