

Pyramid DSP Premium Series

On-Line "Double Conversion" Technology,
DSP Controlled IGBT Rectifier UPS
3phase in / 3phase out 10 to 400kVA

- ▶ High Output Power Factor : 0,9
- ▶ Graphical Touch Screen Front Display Panel
- ▶ IGBT Rectifier
- ▶ Real Digital Signal Processor (DSP) controlled transformerless design
- ▶ Input Power Factor Correction PFC(>0,99)
- ▶ Low Total Harmonic Distortion Level (THDi \leq 4%)
- ▶ High Efficiency (up to 94%)
- ▶ Wide Input Voltage Range
- ▶ Generator Compatible Operation
- ▶ Evolution and redundancy guaranteed by on site Modular Parallel Systems
- ▶ Intelligent battery management system extends the lifetime of batteries
- ▶ Static and Manual Bypass
- ▶ EPO (Emergency Power Off)
- ▶ Communication with computers and network systems with SNMP availability
- ▶ Expandable battery blocks
- ▶ Low installation and operating costs
- ▶ Different voltage applications with refer to country mains characteristic



Accessories

Communication

- Remote Monitoring Panel & 25m Cable For Remote Panel
- UPSMAN (Management Software)
- Multiserver Shutdown Licence
- Internal SNMP kit :
Internal Slot Card SNMP CS121BSC or CP504, slot box, cable
- External Adapter
SNMP Adapter Net Agent Mini DT 522
SNMP Adapter CS121BL

Other

- Split By-pass
- Parallel Kit
- Drawer Type Internal Battery Shelves 10 - 30kVA
- Special Battery Connection Cable for Drawer Type Shelves

Battery Cabinets

- UPS looking battery Cabinets (different battery configuration available)
V14, V15, V24, V33, V34
- Eco Cabinets (different battery configurations available)
BC00, BC10, BC20, BC30, BC40, BC50, BC60



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MODEL	PDSP-P 33010	PDSP-P 33015	PDSP-P 33020	PDSP-P 33030	PDSP-P 33040	PDSP-P 33060	PDSP-P 33080	PDSP-P 33100	PDSP-P 33120	PDSP-P 33160	PDSP-P 33200	PDSP-P 33250	PDSP-P 33300	PDSP-P 33400	
Output power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	400	
Nominal Active Power (kW)	9	13,5	18	27	36	54	72	90	108	144	180	225	270	360	
INPUT															
Number of phases	3Ph+N+PE														
Nominal Voltage (3ph Phase to Phase)	380V/400V/415V														
Voltage range	(-15)% (+27)%														
Voltage range (%64 load)	(-45)% (+27)%														
Voltage range (%42 load)	(-64)% (+27)%														
Nominal Frequency (Hz)	50 or 60														
Frequency range for online operation	±10%														
Input Current THD	≤4% (*) (**)														
Input Power Factor	0,99														
OUTPUT															
Power factor	0.9														
Number of phases	3Ph+N+PE														
Voltage (3ph Phase to Phase)	380V/400V/415V														
Static Voltage Regulation at %100 Linear Load (online & battery mode)	<1%														
Voltage THD at rated linear load	<3%														
Crest factor	3:1														
Frequency (Hz)	50 or 60														
Free Running Frequency (Hz)	± 0.01%														
Overload	125% for 10 minutes														
	150% for 1 minute														
Efficiency	up to 94% (**)														
BATTERY															
Type	Maintenance-free Lead Acid Batteries														
Quantity (pcs)	62 (2*31)							60 (2*30)							
Battery Protection	Deep Discharge Protection with Auto Cut off														
Battery Test	Standard (Automatic and Manual)														
DISPLAY															
3.5" Graphical Touch Screen	Graphical Flow Diagram for Line, Rectifier, Bypass, Battery, Inverter and Load														
	Input & Output Frequency, Voltage & Current, Load Power Factor, Load%, Load Active & Apparent Power, Bypass Voltage & Frequency, Battery Voltage, Current & Temperature, Autonomy Time (min),														
STATIC BYPASS															
Number of phases	3Ph+N+PE														
Voltage Range for bypass operation	± 10%														
Frequency Range for bypass operation (Hz)	± 6% (Configurable)														
COMMUNICATION															
Interface (Communication Ports)	RS232, RS485 (ModBus)														
Relay Contact Signals (Adjustable)	Programmable 4 Relay Contacts to any of following signals: General Alarm, Input Failure, Battery Failure, Output Failure, Bypass Active, Output Overload, High Temperature														
Others	EPO, Generator Interface														
ENVIRONMENT															
Storage Temperature Range (°C)	-25 to +55 (15 to 40 recommended for longer battery life time)														
Operating Temperature Range (°C)	0 to 40 (20 to 25 recommended for longer battery life time)														
Relative Humidity Range	0-95% (non-condensing)														
Maximum Altitude without derating (m)	1000														
Protection Level	IP20														
Audible Noise Level from 1m (dBA)	50		52		55		58	60	68	72	77	78	78	80	
PHYSICAL SPECIFICATIONS															
Output power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	400	
Dimensions WxDxH (cm)	40 x 78 x 107				52 x 90 x 130	67 x 73 x 163		85 x 78 x 182	96 x 87 x 186			134 x 118 x 195			
Weight (kg)	100	114	116	122	180	253	285	380	535	595	855	855	968	1000	
STANDARDS															
Standards	EN 62040-1-1 (Safety), EN 62040-2 (EMC), EN 62040-3 (VFI-SS-111)														

(*) for source having THDv < 2 % @ nominal load
(**) varies depending on ups power



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