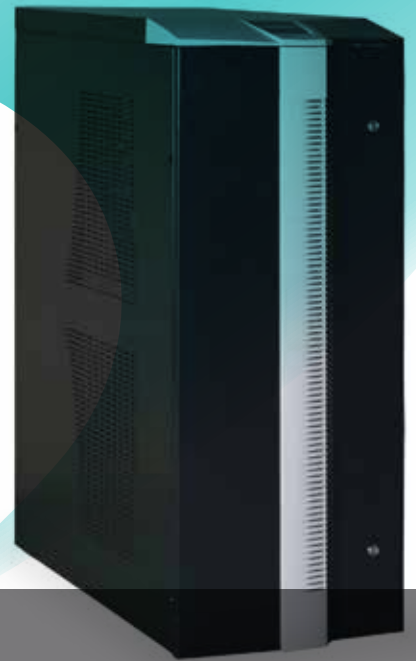


MPOWER UPS



PYRAMID DSP SERIES

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**10 years of uninterruptible power**

# PYRAMID DSP SERIES

## On-Line Double Conversion Technology, DSP Controlled IGBT Rectifier UPS 3 phase in / 3 phase out 10 to 300kVA. 3 phase in / 1 phase out 10 to 40kVA

- 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
- Wide Input Voltage Range
- Generator Compatible Operation
- Parallel ready for future proofing
- Intelligent battery management system extends the lifetime of batteries
- Static and Manual Bypass
- Optional Galvanic isolation transformer
- SNMP option for communication with computer and LAN
- Extended run times with additional battery packs
- Low installation and operating costs
- EPO (Emergency Power Off)



### Accessories

#### Communication

- Remote Monitoring Panel & 25m Cable For Remote Panel
- UPSMAN (Management Software)
- Multi server Shutdown Licence
- Internal SNMP kit:
  - Internal Slot Card SNMP CS121BSC or CP504, slot box, cable
- External Adapter options
  - SNMP Adapter Net Agent Mini DT 522
  - SNMP Adapter CS121BL
  - SNMP Adapter with Modbus CS121LM

#### Other

- Split by-pass
- Parallel Kit
- Drawer Type Internal Battery Shelves 10 - 30kVA

## PYRAMID DSP SERIES

Uninterruptible Power Supplies (UPS) play an important role in the protection of critical and sensitive loads from a fluctuating or unstable mains power supply and they are used to supply uninterrupted energy to these loads in the home or office.

The Pyramid DSP UPS during normal operation, provides stable pure sine wave output. This pure sine wave is not affected by any input voltage fluctuation, helping to extend the life time of your connected equipment.

During a mains failure incident, the power supply needed for the supported load is provided by the battery in the UPS (or in external battery cabinet/s).

UPS control and management is controlled through the Digital Signal Processor (DSP) which is 200 times faster than standard microprocessors. This makes your UPS more intuitive. The DSP operates on optimum conditions, monitors faults, and communicates with your computer system or LAN.



## Specification

MODEL (380-400-415V 3ph version)	PDSP 33010	PDSP 33015	PDSP 33020	PDSP 33030	PDSP 33040	PDSP 33060	PDSP 33080	PDSP 33100	PDSP 33120	PDSP 33160	PDSP 33200	PDSP 33250	PDSP 33300	PDSP 33400	
Output power ( kva )	10	15	20	30	40	60	80	100	120	160	200	250	300	400	
Nominal Active Power ( kW )	8	12	16	24	32	48	64	80	96	128	160	200	240	320	
MODEL (200-208-220V 3Ph version)	PDSP- U33005	PDSP- U33007	PDSP- U33010	PDSP- U33015	PDSP- U33020	PDSP- U33030	PDSP- U33040	PDSP- U33050	PDSP- U33060	PDSP- U33080	PDSP- U33100	PDSP- U33125	PDSP- U33150	PDSP- U33200	
Output power ( kva )	5	7.5	10	15	20	30	40	50	60	80	100	125	150	200	
Nominal Active Power ( kW )	4	6	8	12	16	24	32	40	48	64	80	100	120	160	
INPUT															
Number of phases	3Ph+N+PE														
Nominal Voltage ( Ph-Ph )	200V / 208V / 220V (PDSP-U) 380V/400V/415V (PDSP)														
Voltage range (%100 load)	(-15)% to (+27)% for PYRAMID DSP / ±15% for PYRAMID DSP-U														
Voltage range (%64 load)	(-45)% (+27)%@PYRAMID DSP														
Voltage range (%42 load)	(-64)% (+27)%@PYRAMID DSP														
Nominal Frequency ( Hz )	50 or 60														
Frequency range for online operation	±10%														
Input Power Factor	0.99														
OUTPUT															
Power factor	0.8														
Number of phases	3Ph+N+PE (PDSP & PDSP-U)														
Voltage ( 3ph_ Phase to Phase )	200V / 208V / 220V (PDSP-U) or 380V/400V/415V (PDSP)														
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 ) PDSP version	62 ( 2*31 )							60 ( 2*30 )							
Quantity ( pcs ) PDSP-U version	34 ( 2*17 )														
Battery Protection	Deep Discharge Protection with Auto Cut off														
Battery Test	Standard ( Automatic and Manual )														
DISPLAY															
LED Display	Line, Bypass, Battery, Inverter, Load, Fault Indications														
LCD Display	Load%, Input & Output Frequency, Voltage & Current, Bypass voltage, Battery Voltage & Current, Temperature, Alarms														
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 & RS422														
RELAY Contact	AC failure, Battery under voltage, bypass operation, output failure														
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														
PHYSICAL SPECIFICATIONS															
Dimensions w x d x h (cm)	40 x 78 x 107				52 x 90 x 130			67x73x163		85x78x182		98x87x195		134x108x195	
Weight (kg)	100	114	116	122	180	202	253	285	405	522	570	735	750	800	
STANDARDS															
Standards	EN 62040-1-1 (safety), EN 62040-2(EMC), EN 62040-3 (VFI-SS-111)														

