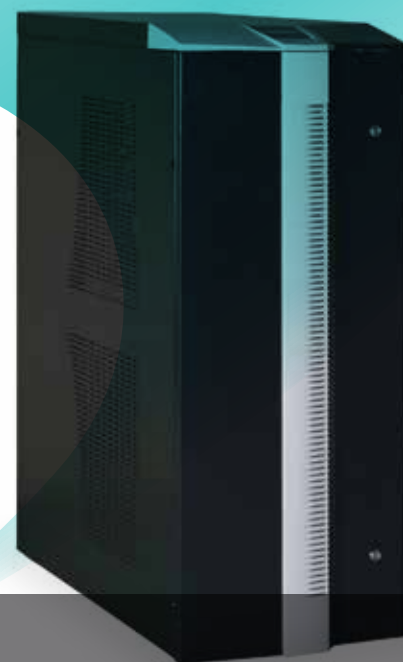




MPOWER UPS



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 | |
|---|--|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| Output power (kva) | 10 | 15 | 20 | 30 | 40 | 60 | 80 | 100 | 120 | 160 | 200 | 250 | 300 | |
| Nominal Active Power (kW) | 8 | 12 | 16 | 24 | 32 | 48 | 64 | 80 | 96 | 128 | 160 | 200 | 240 | |
| 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 | |
| Output power (kva) | 5 | 7.5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 125 | 150 | |
| Nominal Active Power (kW) | 4 | 6 | 8 | 12 | 16 | 24 | 32 | 40 | 48 | 64 | 80 | 100 | 120 | |
| 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 dx 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 | |
| STANDARDS | | | | | | | | | | | | | | |
| Standards | EN 62040-1-1 (safety), EN 62040-2(EMC), EN 62040-3 (VFI-SS-111) | | | | | | | | | | | | | |