

Pyramid Dsp Series

On-Line "Double Conversion" Technology, DSP Controlled IGBT Rectifier UPS 3 phase in / 1phase 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 ≤ 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
- Optional Galvanic isolation transformer
- 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 ;
- ► EPO (Emergency Power Off)



Communication

- Remote Monitoring Panel &25m Cable For Remote Panel
- UPSMAN (Management Software)
- Multiserver Shutdown Licence
- Internal SNMP kit : Internal Slot Card SNMP CS141BSC or CY504, slot box, cable
- External Adapter
 SNMP Adapter Net Agent Mini DY522
 SNMP Adapter CS141BL
- SNMP Adapter with Modbus CS141LM

Other

- Splitt 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) • BCOO, BC1O, BC2O, BC3O, BC4O, BC5O, BC6O





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Pyramid DSP Series Technical Specifications

MODEL	PDSP31010	PDSP31015	PDSP31020	PDSP31030	PDSP31040
Output power (kVA)	10	15	20	30	40
Nominal Active Power (kW)	8	12	16	24	32
INPUT					
Number of phases	3Ph+N+PE				
Nominal Voltage	380V/400V/415V				
Voltage range (%100 load)	(-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	0.8				
Number of phases	1Ph+N+PE				
Voltage (1ph_ Phase to Phase)	220V / 230V / 240V				
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%				
Quadaad	125% for 10 minutes				
Ovenbad	150% for 1 minute				
Efficiency	up to 94% (**)				
BATTERY					
Туре	Maintenance-free lead acid batteries				
Quantity (pcs)	62 (2*31)				
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	FPh+N+PE				
Voltage Range for bypass operation	± 10%				
Frequency Range for bypass operation (Hz)	± 6% (Configurable)				
COMMUNICATION					
Interface (Communication Ports)	RS232&485				
Dry Contact Signals (optional)	AC failure, Battery under voltage, bypass operation, output failure				
Others	EPO, Generator interface				
ENVIRONMENT					
Storage Temperature Range (°C)	-25 to +55 (15 to 40 recomended for longer battery life time)				
Operating Temperature Range (°C)	0 to 40 (20 to 25 recomended for longer battery life time)				
Relative Humidity Range	0-95% (non-condensing)				
Maximum Altitude without derating	1000 meters				
Protection Level	IP20				
PHYSICAL SPECIFICATIONS					
Dimensions wxdxh (cm)	40 x 78 x 107 52 x 90 x 130				
Weight (kg)	100	114	116	122	180
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

