



HOME/OFFICE

DATA CENTER

MEDICAL

INDUSTRY

TRANSPORTATION

EMERGENCY

## Pyramid DSP Premium

3 Phase In – 3 Phase Out / 160 - 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 ≤ 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



UPS ONLINE



TOWER



LCD DISPLAY  
160-400kVA



SERVICE

### ACCESSORIES

#### 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 DY 522  
SNMP Adapter CS141BL

#### 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



# Pyramid DSP Premium

## TECHNICAL SPECIFICATIONS

MODEL	PDSP-P 33160	PDSP-P 33200	PDSP-P 33250	PDSP-P 33300	PDSP-P 33400
Output power ( kVA)	160	200	250	300	400
Nominal Active Power ( kW )	144	180	225	270	360
<b>INPUT</b>					
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				
<b>OUTPUT</b>					
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% (**)				
<b>BATTERY</b>					
Type	Maintenance-free Lead Acid Batteries				
Quantity (pcs )	60 (2*30)				
Battery Protection	Deep Discharge Protection with Auto Cut off, Temperature Voltage Compensated Charge				
Battery Test	Standard ( Automatic and Manual )				
<b>DISPLAY</b>					
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).				
<b>STATIC BYPASS</b>					
Number of phases	3Ph+N+PE				
Voltage Range for bypass operation	± 10%				
Frequency Range for bypass operation (Hz)	± 6% ( Configurable )				
<b>COMMUNICATION</b>					
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 Acvite, Output Overload, High Temperature				
Others	EPO, Generator Interface				
<b>ENVIRONMENT</b>					
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)	62				67
<b>PHYSICAL SPECIFICATIONS</b>					
Output power ( kVA)	160	200	250	300	400
Dimensions WxDxH (cm)	98x87x195	134x108x205			
Weight (kg)	570	830	865	900	1070
<b>STANDARDS</b>					
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