

Pyramid DSP Series

Uninterruptible Power Systems

On-Line "Double Conversion" Technology, DSP Controlled IGBT Rectifier UPS 3 phase in / 3phase out 10 to 300kVA (PDSP version) 3 phase in / 3phase out 5 to 150kVA (PDSP-U version)



- 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 95%)
- 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
- Synchronization Capability with external sources
- 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;
 - PDSP version for 380/400/415V(Ph_Ph) applications
 - PDSP-U version for 200/208/220V(Ph_Ph) applications
 - Special voltage applications other than stated values
- EPO (Emergency Power Off)
- → 3 phase in 1 phase out version is available (10 to 40 kVA)
- → 50/60 Hz Frequency Converter version is available

Accessories

Communication

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

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)

BC20, BC30, BC40, BC50, BC60











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Pyramid DSP Specifications

MODEL (380-400-415V 3Ph Version)	PDSP33010	PDSP33015	PDSP33020	PDSP33030	PDSP33040	PDSP33060	PDSP33080	PDSP33100	PDSP33120	PDSP33160	PDSP33200	PDSP33250	PDSP33300
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	<u> </u>	- v		12			- OL	-10	1 10			100	120
Number Of Phases	T						3Ph+N+PE						
Number Of Fridayes	200V / 209V / 229V / PDSP-U) or												
Nominal Voltage (Ph-Ph)	380V/400V/415V (PDSP)												
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	54% (*)												
Input Power Factor							0,99						
OUTPUT	*												
Power Factor							0.8						
Number Of Phases						3Ph+l	N+PE (PDSP & PD	SP-U)					
Voltage (1Ph_ Phase To Neutral)							208V / 220V (PDSI						
Voltage (3ph_ Phase To Phase) Static Voltage Regulation At %100	380V/400V/415V (PDSP)												
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 minutes												
Efficiency							up to 95% (**)						
BATTERY													
	T					Maintena	nce-Free Lead Acid	d Batteries					
Туре						Maintena 62 (2*31)	nce-Free Lead Acid	1 Batteries		T	60 (2*30)	
Type Quantity (Pcs) PDSP Version								l Batteries			60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version						62 (2*31)	34 (2*17)				60 (2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection						62 (2*31) Deep Discha		Auto Cut Off			60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test						62 (2*31) Deep Discha	34 (2*17) rge Protection With	Auto Cut Off			60 (;	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY						62 (2*31) Deep Discha Standar	34 (2*17) rge Protection With d (Automatic And I	Auto Cut Off Manual)			60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display				Load% Innu	t & Outnut Freque	62 (2*31) Deep Discha Standar Line, Bypass, Bat	34 (2*17) rge Protection With d (Automatic And I	Auto Cut Off Manual) , Fault Indications	& Current Temporal	erature Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display				Load%, Inpu	t & Output Frequer	62 (2*31) Deep Discha Standar	34 (2*17) rge Protection With d (Automatic And I	Auto Cut Off Manual) , Fault Indications	& Current, Tempe	erature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display STATIC BYPASS				Load%, Inpu	t & Output Frequer	62 (2*31) Deep Discha Standar Line, Bypass, Bat	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag	Auto Cut Off Manual) , Fault Indications	& Current, Temps	erature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display STATIC BYPASS Number Of Phases				Load%, Inpu	t & Output Frequer	62 (2*31) Deep Discha Standar Line, Bypass, Bat	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE	Auto Cut Off Manual) , Fault Indications	& Current, Temps	erature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation				Load%, Inpu	t & Output Frequer	62 (2*31) Deep Discha Standar Line, Bypass, Bat	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag	Auto Cut Off Manual) , Fault Indications	& Current, Temps	erature, Alarms	60 (:	2°30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCO Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range				Load%, Inpu	t & Output Frequer	62 (2*31) Deep Discha Standar Line, Bypass, Bat acy, Voltage & Curr	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE	Auto Cut Off Manual) , Fault Indications je, Battery Voltage	& Current, Tempo	erature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz)				Load%, I npu	t & Output Frequer	62 (2*31) Deep Discha Standar Line, Bypass, Bat acy, Voltage & Curr	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10%	Auto Cut Off Manual) , Fault Indications je, Battery Voltage	& Current, Temps	erature, Alarms	60 (:	2'30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION				Load%, Inpu	t & Output Frequer	62 (2*31) Deep Discha Standar Line, Bypass, Bat acy, Voltage & Curr	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable	Auto Cut Off Manual) , Fault Indications je, Battery Voltage	& Current, Tempe	erature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports)				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat cy, Voltage & Curr	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable	, Auto Cut Off Manual) , Fault Indications ,e, Battery Voltage		erature, Alarms	60 (:	2°30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat coy, Voltage & Curr	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass (Auto Cut Off Manual) , Fault Indications pe, Battery Voltage)		erature, Alarms	60 (:	2'30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others				Load%, i npu		62 (2°31) Deep Discha Standar Line, Bypass, Bat coy, Voltage & Curr	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable	Auto Cut Off Manual) , Fault Indications pe, Battery Voltage)		erature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat hcy, Voltage & Curr	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass O O, Generator Interf	Auto Cut Off Manual) Fault Indications pe, Battery Voltage) Deparation, Output Face		prature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C)				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat cy, Voltage & Curr dure, Battery under EP -25 to +55 (15 to 40	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ant, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass (O, Generator Interf Recomended For Long	Auto Cut Off Manual) Fault Indications pe, Battery Voltage) Operation, Output Face er Battery Life Titine)		erature, Alarms	60 (:	2'30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Operating Temperature Range (°C)				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat ncy, Voltage & Curr dilure, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ant, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass (O, Generator Interf Recomended For Longe comended For Longe	Auto Cut Off Manual) , Fault Indications ge, Battery Voltage) Operation, Output Face er Battery Life Time)		erature, Alarms	60 (2'30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat ncy, Voltage & Curr dilure, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass (O, Generator Interf Recomended For Longe ecomended For Longe	Auto Cut Off Manual) , Fault Indications ge, Battery Voltage) Operation, Output Face er Battery Life Time)		erature, Alarms	60 (:	2*30)	
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Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat ncy, Voltage & Curr dilure, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass (O, Generator Interf Recomended For Longe ecomended For Longe	Auto Cut Off Manual) , Fault Indications ge, Battery Voltage) Operation, Output Face er Battery Life Time)		erature, Alarms	60 (2'30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range ("C) Operating Temperature Range ("C) Operating Temperature Range ("C) Relative Humidity Range Maximum Altitude Without Derating (m)				Load%, Inpu		62 (2°31) Deep Discha Standar Line, Bypass, Bat ncy, Voltage & Curr dilure, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass G O, Generator Interf Recomended For Longe ecomended For Longe 95% (Non-Condensin 1000	Auto Cut Off Manual) , Fault Indications ge, Battery Voltage) Operation, Output Face er Battery Life Time)		erature, Alarms	60 (:	2*30)	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Allhiude Without Derating (m) Protection Level		40 x 78	×107	Load%, Inpu	AC fa	62 (2°31) Deep Discha Standar Line, Bypass, Bat ncy, Voltage & Curr dilure, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ent, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass G O, Generator Interf Recomended For Longe ecomended For Longe 95% (Non-Condensin 1000	Auto Cut Off Manual) , Fault Indications ge, Battery Voltage) Operation, Output Face er Battery Life Time)			60 (:	2°30)	x183
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C) Relative Humidity Range Maximum Altitude Without Derating (m) Protection Level PHYSIOAL SPECIFICATIONS	102	40 x 78	x 107 110	Load%, Inpu	AC fa	62 (2°31) Deep Discha Standar Line, Bypass, Bat ncy, Voltage & Curr ### Curr ### Line, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R 0	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ant, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass (O, Generator Interf Recomended For Longe 95% (Non-Condensin 1000 IP20	Auto Cut Off Manual) Fault Indications ge, Battery Voltage) Operation, Output Face er Battery Life Time) g)	Failure				x193 765
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Relative Humidity Range Maximum Altitude Without Derating (m) Protection Level PHYSICAL SPECHFAITONS Dimensions wxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx	102	40 x 78		Load%, Inpu	AC fa	62 (2°31) Deep Discha Standar Line, Bypass, Bat cy, Voltage & Curr ### Curr ### Liture, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R 0 0 × 130	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ant, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass Co, Generator Interf Recomended For Long ecomended	Auto Cut Off Manual) , Fault Indications pe, Battery Voltage) Deparation, Output Face ace er Battery Life Time) g)	=ailure 	96x8	7x186	161x108	
Type Quantity (Pcs) PDSP Version Quantity (Pcs) PDSP-U Version Battery Protection Battery Test DISPLAY LED Display LCD Display LCD Display LCD Display STATIC BYPASS Number Of Phases Voltage Range For By Pass Operation Frequency Range For By Pass Operation Frequency Range For By Pass Operation (Hz) COMMUNICATION Interface (Communication Ports) Dry Contact Signals Others ENVIRONMENT Storage Temperature Range (°C) Operating Temperature Range (°C) Genating Temperature Range (°C) Relative Humidity Range Maximum Altitude Without Derating (m) Protection Level PHYSICAL SPECHECATIONS Dimensions wxxdxh (cm) Weight (kg) Weight (kg)	102	40 x 78		Load%, Inpu	AC fa	Deep Discha Standar Line, Bypass, Bat ncy, Voltage & Curr dure, Battery under EP -25 to +55 (15 to 40 0 to 40 (20 to 25 R 0 co.)	34 (2*17) rge Protection With d (Automatic And I tery, Inverter, Load ant, By Pass Voltag 3Ph+N+PE ±10% 6% (Configurable RS232 & RS422 Voltage, By Pass Co, Generator Interf Recomended For Long ecomended	Auto Cut Off Manual) , Fault Indications pe, Battery Voltage) Deparation, Output Face er Battery Life Time) g) 64x98x140 295	Failure 77x76x168 330	96x8	7x186	161x108	

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

