

## POWER DSP Series 10KVA-40KVA

- Online-Double conversion
- Output transfer time is 0ms
- PFC technology
- Full digital control (DSP)
- Output power factor: 0.9
- Input current harmonic: 3%
- ECO function
- Optimization battery group
- Wide input voltage range: 208-478Vac
- Wide input frequency range: 40-70Hz
- DC start
- Standard USB/RS232 / RS485 / dry contact
- Options: SNMP card / Relay card
- LCD Touch Screen / LED double display
- Intelligent charging management
- The output can meet 100% unbalanced load
- Charging/Rectifier/Inverter fully digital control technology



### High reliability design

Wide input voltage range 138-485Vac (phase voltage 80-280Vac) no derating when input voltage more than 305Vac

### Strong load capacity

Output power factor is 1.0 UPS can supply to 100% unbalance load. High adaptability for load, it can connect full inductive load or capacitive load.

### Flexible battery confirmation

Batteries number of each group can be selected from 30-50Pcs Large charging current can meet the requirement of long-time backup.

### Intelligent management

Support RS485, RS232, SNMP, dry contact card

### Power Saving

High input power factor, it can be up 0.99 three level inverter Topology, the efficiency can be up to 96%.

### Parallel redundancy function

support parallel expanded operation: maximum is 6 unite

### Compatible with generator

power walk in function, it can reduce the start current impact to system, and it can reduce The capacity of generator

### LBS function

LBS function can realize 2 independent UPS

## Technical Specifications:

| MODEL                     | PDSP310  | PDSP315 | PDSP320 | PDSP330 |
|---------------------------|--|---------|---------|---------|
| Capacity                  | 10KVA  | 15KVA   | 20KVA   | 30KVA   |
| <b>INPUT</b>              |  |         |         |         |
| Nominal Voltage           | 380/400/415Vac, 3Ph+N+PE   |         |         |         |
| Operating Voltage Range   | 208-478Vac   |         |         |         |
| Operating Frequency Range | 50Hz: 45-55Hz / 60Hz: 54-66Hz  |         |         |         |
| Power Factor              | >0.99  |         |         |         |
| THDi                      | <3% ( 100% linear load )   |         |         |         |
| Bypass voltage range      | 220Vac Max. voltage: +25% (optimal +10%, +15%, +20%)<br>230Vac Max. voltage: +20% (optimal +10%, +15%,)<br>240Vac Max. voltage: +15% (optimal +10%,)<br>Min. volyage: -45% (optimal -20%, -30%)<br>Frequency synchronize tracing range: ±10% |         |         |         |
| <b>OUTPUT</b>             |  |         |         |         |
| Output voltage            | 380/400/415Vac, 3Ph+N+PE   |         |         |         |
| Voltage regulation.       | ± 1%   |         |         |         |
| Power Factor              | 0.9  |         |         |         |
| Output frequency          | 1- Line Mode: ±1% / +2% / +4% / +5% / +10% of the rated frequency (option)<br>2- Battery Mode: (50/60 ±0.1) Hz   |         |         |         |
| Crest factor              | 3 : 1  |         |         |         |
| THDv                      | <1% with linear load<br><4% with non linear load   |         |         |         |
| Efficiency                | 94%  | 94.5%   |         |         |
| <b>BATTERY</b>            |  |         |         |         |
| Battery voltage           | Standard 20Pcs x 12V   |         |         |         |
|                           | Battery Quantity: 16/18/20Pcs  |         |         |         |
| Charge Current (A)        | 4.5A   |         |         |         |
| <b>System Features</b>    |  |         |         |         |
| Transfer time             | Utility to Battery: 0ms, Utility to bypass: 0ms  |         |         |         |
| Over load                 | Load<110%: 60Min; <125%: 10Min; >150% tuen to bypass mode  |         |         |         |
| Alarm                     | over load, utility abnormalm UPS fault, battery low, high and low Voltage  |         |         |         |
| Protection                | short crcuitm overload, over temperature, battery lowm fan fault. Alarm  |         |         |         |
| Remot LCD                 | Support  |         |         |         |
| Communication             | USB, RS485, Parralel port, Coupler dry. Contact, Intelligent slot, SNMP, card (option), relay. Card (option)   |         |         |         |
| <b>ENVIRONMENTAL</b>      |  |         |         |         |
| Operating Temperature     | 0-40 C   |         |         |         |
| Storage temperature       | -25-55 C ( No battery )  |         |         |         |
| Humidity                  | 0-95% (non condensing)   |         |         |         |
| Altitude                  | < 1500m. When>1500m  |         |         |         |
| Noise level               | <55dB  | <58dB   |         |         |
| <b>PHYSICAL</b>           |  |         |         |         |
| Dimension D x W x H (mm)  | 828x250x868  |         |         |         |
| Net weight (Kg)           | 115  | 170     | 171     | 223     |
| <b>STANDARDS</b>          |  |         |         |         |
| Safety                    | IEC/EN62040-1, IEC/EN60950-1   |         |         |         |
| EMC                       | IEC/EN62040-2, IEC61000-4-2 IEC61000-4-3, IEC61000-4-4, IEC61000-4-8; IEC61000-4-6; IEC61000-4-5   |         |         |         |

