

## POWER DSP Series

### 50KVA-200KVA

3:3 Phase PF: 1.0



- 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	PDSP350	PDSP360	PDSP380	PDSP3100	PDSP3120	PDSP3150	PDSP3160	PDSP3200
Capacity	50KVA	60KVA	80KVA	100KVA	120KVA	150KVA	160KVA	200KVA
<b>INPUT</b>								
Nominal Voltage	380/400/415Vac, 3Ph+N+PE							
Operating Voltage Range	138-485Vac for 40%load, 305-485Vac for full load							
Operating Frequency Range	40-70Hz							
Power Factor	>0.99							
THDi	<3% ( 100% linear load )							
Bypass voltage range	220Vac Max. voltage: +25% (optinal +10%, 15%, 20%) 230Vac Max. voltage: +20% (optinal +10%, 15%,) 240Vac Max. voltage: +15% (optinal $\pm$ 10%), Min. volyage: -45% (optinal -20%, -30%) Frequency synchronize tracing range: $\pm$ 10%							
Generator input	Support							
<b>OUTPUT</b>								
Output voltage	380/400/415Vac, 3Ph+N+PE							
Voltage regulation.	$\pm$ 1%							
Power Factor	0.9 & 1							
Output frequency	Line Mode: synchronize with input, when input frequency > $\pm$ 10% ( $\pm$ 1-5% optinal), output (50/60 $\pm$ 0.1) Hz Battery Mode: (50/60 $\pm$ 0.1) Hz							
Crest factor	3 : 1							
THDv	<1% with linear load <4% with non linear load							
Efficiency	96%							
<b>BATTERY</b>								
Battery voltage	Optional Voltage: $\pm$ 180/ $\pm$ 192/ $\pm$ 204/ $\pm$ 216/ $\pm$ 228/ $\pm$ 240/ $\pm$ 252/ $\pm$ 264/ $\pm$ 276/ $\pm$ 288/. $\pm$ 300VDC (30/32/34/36/38/40/42/44/46/48/50Pcs) / 360-600VDC (30-50Pcs), 36Pcs. Default, 36. to 50Pcs output power factor 1.0: / 32-34Pcs output power factor 0.9 / 30Pcs output power factor 0.8)							
Charge Current (A)	20A		60A			60A		
<b>System Features</b>								
Transfer time	Utility to Battery: 0ms, Utility to bypass: 0ms							
Over load	Inverter mode: 60Min for 110%, 10Min for 125%, 1Min for 150% Bypass mode: 135% overload for long time, >1000% overload for 100ms							
Backfeed protection	Support							
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	<60dB		<62dB	<63dB	<64dB	
<b>PHYSICAL</b>								
Dimension D x W x H (mm)	828x250x868			850x442x1200			850x600x1200	
Net weight (Kg)	80	83	135	147	152	190	190	200
<b>STANDARDS</b>								
Safety	IEC/EN62040-1, IEC/EN60950-1							
EMC	IEC/EN62040-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-4, IEC61000-4-8							

