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**True On-line (double conversion) Uninterruptible Power Supply
Complete with integral automatic bypass switch**

Premier Dual **3.3KVA to 10KVA**

Single Phase Input / Single Phase Output



- *On-line double conversion*
- *Automatic bypass switch*
- *Input power factor >0.98*
- *Superior battery management*
- *50Hz or 60Hz operation*
- *Wide input voltage range*
- *Programmable output*
- *RS-232 interface*
- *SNMP communication options*
- *Free software*

Tower or 19" Rack mount

The **Premier Dual** UPS provides true on-line protection and uses double conversion (VFI) technology. Every model in the range may be placed directly on the floor (tower) OR mounted in 19" rack mount cabinets.

User selectable operating modes include:

- On-Line (efficiency 92%)
- Economy (efficiency 98%)
- Smart Active (efficiency 98%)
- Emergency
- Frequency Conversion

Specifications

MODEL	PD 3300	PD 4000	PD 5000	PD 6000	PD 8000	PD 10000
Rated Power (VA)	3300	4000	5000	6000	8000	10000
Power (W)	2300	2400	3500	4200	6400	8000

INPUT						
Nominal Input Voltage	220-230-240 Vac Single Phase					
Voltage Range	184 -276 Vac @ full load (lower voltages at part load)					
Frequency	50/60 Hz \pm 5 Hz					
Power Factor	$>$ 0.98					
Input Current Distortion	\leq 7%					
Max./Nominal Input Current*	15A/11A	16A/12A	25A/18A	30A/22A	38A/29.5A	46A/36A

BYPASS	
Voltage Range	180 – 264 Vac
Frequency Range	Selected frequency \pm 5%

BATTERIES						
Type	Sealed lead acid, maintenance free					
Back-up Time (Full-Load/Typical) (min)	6/12	5/10	8/10	6/8	8/10	6/8
Recharge Time	4-6 hours					

INVERTER OUTPUT	
Nominal Output Voltage	220-230-240 Vac selectable
Static Stability	\pm 1.5%
Dynamic Stability	\leq 5% in 20Ms
Waveform	Sinewave
Harmonic Distortion with linear load	$<$ 3%
Harmonic Distortion with non-linear load	$<$ 6%
Crest Factor	3:1
<i>Overload Capability:</i>	
100% $<$ Load $<$ 110%	1 minute
110% $<$ Load $<$ 150%	4 seconds
Load $>$ 150%	0.5 seconds

COMMUNICATIONS INTERFACES	
RS-232 and Opto-Isolated Contacts	Yes
SNMP Solution	Optional (plug-in card)
Emergency Power Off (EPO)	Optional on 3.3 & 4Kva, standard on 5, 6, 8 & 10Kva

ENVIRONMENT						
Operating Temperature	0 – 40°C (15 – 25°C recommended for batteries)					
Relative Humidity	$<$ 95% non condensing					
Protection	Overload – Short Circuit – Overvoltage – Undervoltage – Temperature – Low Battery					
Heat Dissipation (full load)	208W	252W	315W	458W	518W	648W

GENERAL DATA	
Colour	Dark Grey
Audible Noise	$<$ 40 dBA at 1 m $<$ 45 dBA at 1 m
Enclosure Protection	IP20
Compliance	EN 62040-1 EMC EN 62040-2 Directives 73/23 - 93/68 - 2004/108 EC EN 62040-3

WEIGHTS AND DIMENSIONS						
Weight (kg)	38	40	62	64	94	95
Dimensions - Tower (hwd) (mm)	455 x 175 x 520		455 x 175 x 660		2 x 455 x 175 x 660	
Dimensions - Rack (hwd) (mm)	175(4U) x 483 x 520		175(4U) x 483 x 660		2 x 175(4U) x 483 x 660	

*Maximum current @ 184V. Nominal current @ 230V. Specifications are subject to change without prior notice.

Optional Extras

- External Manual Bypass Switch
- Battery Extension Packs
- Remote Alarm Panel
- SNMP - MODBUS/JBUS – 230Vac volt free contacts (plug-in cards)

Modes Of Operation

- *ON-LINE* The inverter is on-line at all times to ensure the load is fully protected.
- *ECONOMY* The load is powered from the bypass. If the mains deviates outside tolerance, the load is transferred to inverter. When the mains returns within tolerance, the load is re-transferred to bypass.
- *SMART ACTIVE* The UPS decides whether to operate in economy or on-line mode depending upon the quality of the mains supply.
- *EMERGENCY* The load is not powered until a mains failure occurs, at which time the load is powered by the inverter using battery power.

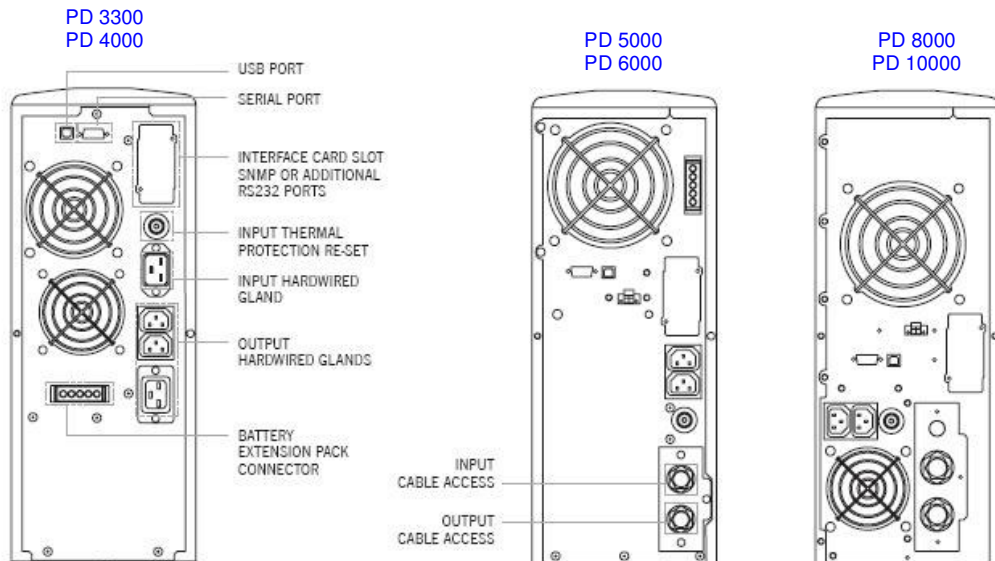
Key Features

- tower or 19" rack mountable
- low audible noise
- selectable operating modes
- auto-restart on mains return
- no load shutdown on power fail
- full digital control
- automatic bypass switch
- manual operation of bypass
- hot-swap batteries
- battery extension packs
- battery start (mains unavailable)



Above: Front display panel

- STATUS**
1. Normal
 2. UPS on mains
 3. UPS on battery
 4. Load on bypass
- 5. ALARM**
- UPS shutdown (permanent)
 - Standby (flashing)
- 6. MEASUREMENTS**
- Input voltage and frequency
 - Output voltage and frequency
 - Battery voltage
 - Output current
 - Output load (%)
 - Battery charge (%)
 - Remaining back-up time
 - Internal temperature
- CONFIGURATIONS**
7. Timer set
 8. Frequency selected
 9. Voltage selected
 10. Operating mode selected



Right: Rear panel of UPS

