

**Performance** that defies looks...



- *Intelligent Micro Controller*
- *Informative LCD Panel*
- *High Efficiency*
- *Compact Size*



**True Online UPS : Double Conversion Single Phase**

## TECHNICAL SPECIFICATIONS

Model	PowerZen 1 in - 1 out	PowerZen 3 in - 1 out
Rating	3KVA / 2400W / 5KVA / 4000W	10KVA to 30KVA
AC Input	230V $\pm$ 20%	415V $\pm$ 15% for Three Phase Input
Frequency	50Hz $\pm$ 10%	50Hz $\pm$ 6%
DC VOLTAGE :	144 VDC / 144 / 180 VDC	360 VDC
Charging Time	12 Hours for 90% of full Capacity	12 Hours for 90% of full Capacity
Charger Type	CVCC Internal Controlled Rectifier Type	CVCC Internal Controlled Rectifier Type
<b>INVERTER</b>		
Technology	IGBT / MOSFET Double Conversion	IGBT Double Conversion
Output Voltage	230V AC Single Phase	230V AC Single Phase
Voltage Regulation	$\pm$ 1% for DC I/P variation & O/P load Variation	$\pm$ 1% for DC I/p variation & O/P load variation
Frequency	50Hz $\pm$ 0.5 Hz (free running mode)	50Hz $\pm$ 0.5Hz
Waveform	PWM Sine Wave	PWM Sine wave
Harmonic Distortion	Less than 3% (no load to full load)	Less than 3%
Inverter Efficiency	>90% for 144 / 180V	> 92%
Power Factor	0.8	0.8
Overload	a) 105% continuously b) 105% to 120% 5 mins c) 150 % for 15 Secs	a) 105% continuously b) 105% to 120% 5 mins c) 150 % for 15 Secs
Crest Factor	3:1	3:1
Transient Recovery	$\pm$ 4% under full load change and corrected within 60msec	$\pm$ 4% under full load change and corrected within 60msec
Audible Noise	Less than 50 dB at 1 Meter	Less than 50 dB at 1 Meter
<b>METERING</b>		
Microprocessor based Digital LCD Meter for	Microprocessor based Digital LCD Metering for Output Voltage, Output Current, Output Frequency, Load Percentage, DC Voltage, DC Current, Battery Percentage	Output Voltage, Output current and Frequency, DC Voltage & Current, Battery and Load Percentage
<b>GENERAL</b>		
Dimensions (L x W x H) mm	650 x 240 x 500	a) 05 / 15 KVA (740 x 350 x 800) b) 20 / 30 KVA (1040 x 350 x 910) c) 40 / 50 KVA (1250 x 450 x 1150)
Operating temperature	0°C to 50°C	0° to 50°C
Humidity	Max 95%, Non-condensing	Max 95%, Non-condensing
<b>PROTECTIONS</b>		
	Output overload & Short circuit, Output Under & Over voltage, DC Under & Over voltage	Output overload & Short circuit, Output Under & Over voltage, DC Under & Over voltage Input Under & Over voltage, Single Phasing & Phase unbalance
<b>INDICATIONS &amp; ALARMS</b>		
a) Mains on	Indication	Indication
b) Inverter on	Indication	Indication
c) DC Low	Indication & Alarm	Indication & Alarm
d) Fault	Indication & Alarm	Indication & Alarm
e) Output Overload	Indication & Alarm	Indication & Alarm
f) Mains Fail	Indication & Alarm	Indication & Alarm
<b>BYPASS FACILITY</b>		
Manual Bypass Switch	Available in 5KVA	Provided as standard feature up to 20KVA
Static Bypass	Optional for all models	Bi-directional

\* Specifications are subject to change without prior notice due to constant improvement in design & technology.

# PAE LIMITED



Regd. & Corp. Office : 69, Tardeo Road, Mumbai- 400 034. India  
TEL : 022 6618 5799 FAX : 022 6618 5757 E-mail : powerzen@paelttd.com Website : www.paelttd.com

### Our Nationwide Network

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