

TECHSER



TMP Series On-line UPS

5KVA - 30KVA
3Phase Input Single Phase output

TECHNICAL SPECIFICATION

High Frequency (20KHz) PWM Microprocessor based IGBT Technology	
INPUT	
Voltage	415V + 10% -20% 3 Phase
Frequency	50 Hz +/- 6%
Power Factor	> 0.75 or > 0.9 (Optional)
OUTPUT	
Power	2 KVA to 60 KVA
Voltage	230V +/- 1%
Frequency	50 Hz +/- 0.5%
Wave Form	Sinusoidal
THD	< 3% on linear loads < 5% on non linear loads
Power Factor	0.8 lag to UPF
Line Regulation	+/- 1%
Load Regulation	+/- 1%
Crest Factor	4:1
Over Load Capacity	150% for 1 minute 125% for 10 minutes
EFFICIENCY	
Inverter	87% to 92%
Overall Efficiency	75% to 85%
D. C. BUS VOLTAGE	
	120V to 360V
TRANSIENT RESPONSE	
For 50 % Load Change +/- 5 % of Nominal Value	

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For 100 % Load Change	+/- 8 % of Nominal Value
Recovery	<3 Cycles
PROTECTIONS	
Output Short Circuit	Input Low
Charging Current Limit	Input High
Battery Low	D.C. Bus Short
Battery Over Charge	Output Over Voltage
Output Over Load	Output Under Voltage
Inverter Over Temperature (Optional)	
INDICATIONS with mimic panel	
Mains On	Inverter On
Mains High	Inverter Over Voltage
Mains Low	Inverter Under Voltage
Battery Low	Inverter Over Temperature (Optional)
Battery Over charge	Inverter Over Current
D.C. Short	Inverter Over Load
METERING	
Output Voltmeter (Microprocessor Based LC Display meter Optional)	
DC Voltmeter	
OPERATING ENVIRONMENT	
Temperature	0.50 Centigrade
Relative Humidity	95% Non Condensing
Noise	< 50 dB
INVERTER BYPASS	
Static Bypass Switch Optional with Load on Mains Indication and Load on Inverter Indication	
CHARGER	
Constant Current Constant Voltage	
MOSFET / IGBT Based High Frequency Charger	
BATTERY	
Low Maintenance Tubular / Sealed Maintenance Free Batteries	
COMPUTER INTERFACE and AUTO SHUTDOWN SOFTWARE (OPTIONAL)	
Windows 95 / Windows 98 / Windows NT	