

Fuelling Innovation
Powering Customer Satisfaction

TECHSER®

THE TECHNICAL SERVICE PEOPLE SINCE 1988

ONLINE UPS TMP SERIES

Applications :

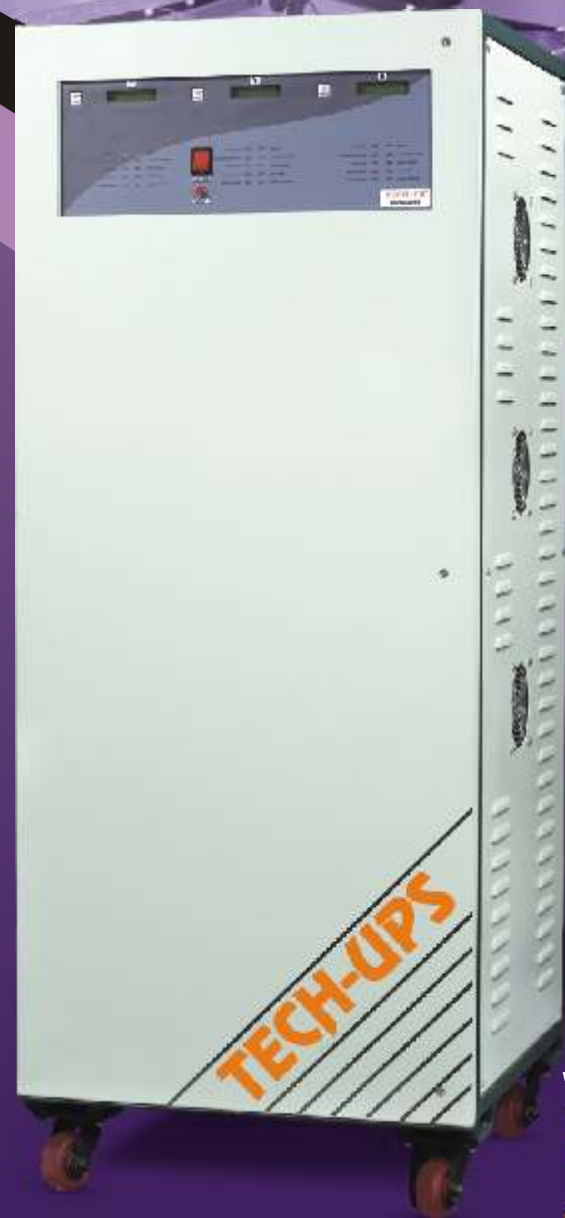
Banking , Insurance, Defence
Telecommunication, Process Industry
IT & ITEs, Data Centre, Education
Medical Diagnostics & Pharmaceuticals

Salient Features of TMP Series UPS

- Micro - Controller Design.
- High Frequency Switching Double Conversion
PWM IGBT Technology with Built-in Galvanic
Isolation.
- Wide Input Voltage Range.
- Pure Sine Wave Output Less than 3% THD.
- Generator Compatibility.
- Cold Start Feature.
- LCD with Control Panel
- EMI/RFI Noise Filter.
- Advanced Communication - RS232, SNMP
Compatible.



Also Manufacturers of
Servo voltage stabilizers
500 VA to 500 KVA



Winner



TMP SERIES - TECHNICAL SPECIFICATIONS

	1Phase Input - 1Phase Output	3Phase Input - 1Phase Output	3Phase Input - 3Phase Output
Capacity in VA	3kVA to 10kVA	5kVA to 60kVA	3kVA to 60kVA
Input (Rectifier)			
Nominal I/P Voltage	1Phase 230V AC + Neutral + Earth	3Phase 415V AC + Neutral + Earth	3Phase 415V AC + Neutral + Earth
Line Low/High Cut-off	175V AC - 276V AC	330V AC - 478V AC	330V AC - 478V AC
Frequency Range	46Hz to 54Hz		
Power factor	≥ 0.75 or : ≥ 0.90 (optional)		
Output (Inverter)			
Voltage	220 / 230V AC (Selectable) 1Phase+N	400V AC (380/415 Selectable) 3Phase+N	
Voltage Regulation	± 1%		± 1% for balanced load ± 2% for 100% unbalanced Load
Phase Displacement	—		≤ 1° for balanced load ≤ 2° for 100% unbalanced Load
Frequency (Free Running)	50 Hz ± 0.5%		
Waveform	Pure Sine Wave		
Harmonic distortion	< 2% (Linear Load) / ≤ 5% (Non-Linear Load)		
Power factor	0.7 Lag to Unity		
Crest factor	3:1		
Efficiency (AC to AC)	82% to 93%		
Efficiency (DC to AC)	89% to 94%		
Transient Response	For 0 - 100% & 100 - 0% step load change the output shall remain within ± 5% and recovers to normal within 20 m sec.		
Overload Capacity	Overload 125% for 10 minute; 150% for 1 minute		
Battery			
Battery Type	Sealed Maintenance Free Lead Acid, Lead Acid Tubular (Battery Bank Voltage, Battery Ah & Quantity Depending on Backup Time)		
DC Voltage	120V to 384V		
Charger	Constant Voltage Constant Current Charger		
Bypass	Static Bypass / Manual Maintenance Bypass		
Communication Interface			
Standard	RS232 Port for Auto Shutdown Software Interface		
Optional (SNMP)	SNMP Network Adaptor Interface for Network Management of UPS		
General			
Operating Temperature	0 - 45 Degree Centigrade		
Relative Humidity	0 - 95% Non - Condensing		
Acoustic Noise Level	≤ 50dBA @ 1.0 Meter Distance		
Audible Alarm	Mains Failure, Battery Low, Output Over Current & Overload		
Protection	Advanced electronic protection for device safety backed with MCB's & Highspeed pulse blanking. O/P Over Load, O/P Over Voltage, O/P Under Voltage O/P Short Circuit, Battery Charging Current & Inverter Over Temperature		
Degree of Protection	IP 20		
LED Indications	Mains ON, Inverter ON, Mains High, Mains Low, Inverter Over Voltage, Inverter Under Voltage, Battery Low, Battery Over Charge, Inverter Over Load/Current, Over Temperature.		
LCD Display	Input /Output Voltage, Output Frequency, Load Current, Battery voltage.		

Customised Complete Power Solutions with Configurations Like Parallel N+1 Redundant, Hot Standby UPS Available on Request.

Other series - TPS /APT Series 1 to 10KVA and EPT Series: 20 to 100 KVA

TECHSER reserves all right to specifications and are subject to change without notice

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OTHER PRODUCTS: SILENT GENERATOR / INVERTER, LINE INTERACTIVE UPS, SERVO STABILIZER (AIR COOLED & OIL COOLED), AVR (AUTOMATIC VOLTAGE REGULATOR) FLOAT CUM BOOST CHARGER & GRID-TIED SOLAR UPS, OFF-GRID SOLAR UPS, SOLAR HYBRID UPS & LED LIGHTING SOLUTIONS

Note: For District Level Branch/Service Centre Telephone and address please contact above regional office in respective state or Visit our website