



- Ⓞ True Double-Conversion Output PF 1
- Ⓞ DSP Technology & Active Power Factor Correction
- Ⓞ CE Mark
- Ⓞ Wide Input Voltage Range
- Ⓞ Generator compatible
- Ⓞ 3-stage extendable charging design for optimized battery performance
- Ⓞ EPO function (Emergency Power Off)
- Ⓞ SNMP+USB+RS-232 multiple communication
- Ⓞ Multifunctional LCD
- Ⓞ Maintenance Bypass Switch
- Ⓞ ECO Mode and ROHS Compliant
- Ⓞ Optional parallel operation

Model TPTM1	3/1-15K	3/1-20K
PHASE	3-phase in / 1-phase out	
CAPACITY	15000 VA/15000 W	20000 VA/20000 W
INPUT		
Nominal Voltage	3 x 400 VAC (3Ph+N)	
Voltage Range	305-478 VAC (3-phase) at 100% load ; 190-520 VAC (3-phase) at 50% load	
Frequency Range	46~54Hz or 56~64Hz	
Power Factor	≥ 0.99 @ 100% Load	
THDi	< 6% @ 100% load	
OUTPUT		
Output Voltage	208/220/230/240VAC	
AC Voltage Regulation (Batt. Mode)	± 1%	
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz	
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz	
Current Crest Ratio	03:01	
Harmonic Distortion	≤2 % THD (Linear Load) ≤5% THD (Non-linear Load)	
Transfer Time	AC Mode to Batt. Mode	Zero
	Inverter to Bypass	Zero
Waveform (Batt. Mode)	Pure Sinewave	
EFFICIENCY		
AC Mode	91,8%	92%
Eco Mode	97%	

BATTERY			
Standard Model	Battery Type	12 V / 9 Ah	
	Numbers	20 pcs (18 - 20 pcs adjustable)	
	Typical Recharge Time	9 hours recover to 90% capacity	
	Charging Current (Max.)	2A	
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)	
Long-run Model	Battery Type	Depending on applications	
	Numbers		
	Charging Current (Max.)	8A	12A
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)	
INDICATORS			
LCD Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
ALARM			
Battery Mode	Sounding every 4 seconds		
Low Battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
PHYSICAL			
Standard Model	Dimension, DxWxH (mm)	815 x 250 x 826	815 x 300 x 1000
	Net Weight (kgs)	165	235
Long-run Model	Dimension, DxWxH (mm)	592 x 250 x 576	815 x 250 x 826
	Net Weight (kgs)	40	65
ENVIRONMENT			
Humidity	0-95 % RH @ 0- 40°C (Non-condensing)		
Noise Level	Less than 58dB @ 1 Meter	Less than 60dB @ 1 Meter	
MANAGEMENT			
Smart RS-232/USB	Supports Windows Family, Linux, Unix, and MAC		
Optional SNMP	Power management from SNMP manager and web browser		
STANDARD REFERENCE			
Topology	VFI-SS-111 ref. EN 62040-3		
SAFETY and EMC	EN 60950 EN 62040-1 dir. 2006/95/EL; EMC: EN 62040-2 dir. 2006/95/CE		