



- ⓪ True Double-Conversion
- ⓪ Output Power Factor 1
- ⓪ Input Power Factor Correction & Low input THDi
- ⓪ Wide Input Voltage Range
- ⓪ GE compatible
- ⓪ Adjustable charging current
- ⓪ ECO mode
- ⓪ Multifunctional LCD
- ⓪ Frequency Converter mode
- ⓪ Tower / Rack Convertible
- ⓪ SNMP/USB/RS-232 communications
- ⓪ Optional N+X parallel redundancy

GPMM 6K/10K RACK/TOWER ONLINE UPS

MODEL	GPMM 6K(L) RT-LV	GPMM 6K(L) RT-HV	GPMM 10K(L) RT-LV	GPMM 10K(L) RT-HV
PHASE	1 phase in / 1 phase out			
CAPACITY	6000 VA / 6000 W	6000 VA / 6000 W	10000 VA / 10000 W	10000 VA / 10000 W
INPUT				
Nominal Voltage	208/220/230/240 VAC			
Voltage Range	110~300VAC @ (0~60%) Load 140~300VAC @ (60~80%) Load 176~300VAC @ (80~100%)Load			
Frequency Range	46~54 Hz @ 50Hz / 56~64 Hz @ 60Hz			
Phase	Single phase with ground			
Power Factor	≥ 0.99 @ full load			
THDi	<4% @100% Load, <6% @50% Load			
OUTPUT				
Output Voltage	104/110/115/120VAC	208*/220/230/240 VAC	104/110/115/120VAC	208*/220/230/240 VAC
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54 Hz @ 50 Hz / 56~64 Hz @ 60 Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤1.5 % THD (Linear Load), ≤ 7 % THD (Non-linear Load)			
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	zero		
Waveform (Batt. Mode)	Pure Sinewave			
Overload	AC Mode	100%~110%: 10min · 110%~130%: 1min · >130% : 1sec		
	Battery Mode	100%~110%: 30sec · 110%~130%: 10sec · >130% : 1sec		

EFFICIENCY					
AC Mode		89%	94%	89%	94%
Battery Mode		86%	91%	86%	91%
BATTERY					
Standard Model	Battery Type	12 V / 7 AH	12 V / 7 AH	12 V / 9 AH	12 V / 9 AH
	Numbers	16	16	16	16
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A			
	Charging Voltage	218.4 VDC ± 1%	218.4 VDC ± 1%	218.4 VDC ± 1%	218.4 VDC ± 1%
Long-run Model	Battery Type	Depending on applications			
	Numbers	16-20			
	Charging Current (max.)	4.0 A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
PHYSICAL					
Standard Model	Dimension, D X W X H (mm)	UPS Unit: 600x438x88 [2U] Battery Pack: 695x438x88 [2U] ISO bank: 600 x 438 x 88 [2U]	UPS Unit: 600x438x88 [2U] Battery Pack: 695x438x88 [2U]	UPS Unit: 600x438x88 [2U] Battery Pack: 695x438x88 [2U] ISO bank: 686 x 438 x 133 [3U]	UPS Unit: 600x438x88 [2U] Battery Pack: 695x438x88 [2U]
	Net Weight (kgs)	UPS Unit: 15 Battery Pack: 48 ISO bank : 61	UPS Unit: 15 Battery Pack: 48	UPS Unit: 18 Battery Pack: 48 ISO bank : 90	UPS Unit: 18 Battery Pack: 48
Long-run Model	Dimension, D X W X H (mm)	UPS Unit : 600 x 438 x 88 [2U] ISO bank: 600 x 438 x 88 [2U]	600 x 438 x 88 [2U]	UPS Unit : 600 x 438 x 88 [2U] ISO bank: 686 x 438 x 133 [3U]	600 x 438 x 88 [2U]
	Net Weight (kgs)	UPS Unit : 15 ISO bank : 61	15	UPS Unit : 18 ISO bank : 90	18
ENVIRONMENT					
Operation Humidity	20-90 % RH @ 0- 50°C (non-condensing)				
Noise Level	Less than 55dBA @ 1 Meter	Less than 55dBA @ 1 Meter	Less than 58dB @ 1 Meter	Less than 58dB @ 1 Meter	
MANAGEMENT					
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux, Unix, and MAC				
Optional SNMP	Power management from SNMP manager and web browser				
<p>* Derate capacity to 60% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC.</p> <p>**If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.</p> <p>When using batteries from 16-19, the unit will de-rate according to below formula: P=Prating x N/20</p> <p>Product specifications are subject to change without further notice</p>					



- ⓪ True Double-Conversion & phase auto adapt function
- ⓪ DSP Technology
- ⓪ Active Power Factor Correction
- ⓪ 50Hz to 60 Hz converter mode
- ⓪ Wide Input Voltage Range
- ⓪ Generator compatible
- ⓪ 3-stage extendable charging design for optimized battery performance
- ⓪ EPO function (Emergency Power Off)
- ⓪ SNMP+USB+RS-232 multiple communication
- ⓪ Multifunctional LCD
- ⓪ Maintenance Bypass Switch

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		



- ⬇ True double-conversion
- ⬇ DSP technology guarantees high reliability
- ⬇ Output power factor 1
- ⬇ Active power factor correction in all phases
- ⬇ 50Hz/60Hz frequency converter mode
- ⬇ ECO mode operation for energy saving
- ⬇ Emergency power off function (EPO)
- ⬇ Optional parallel operation
- ⬇ Smart battery charger design to optimize battery perf.
- ⬇ Maintenance bypass available
- ⬇ Adjustable battery design
- ⬇ High efficiency for energy saving

Model	TPTT 1						
	10K	15K	20K	30K	40K	60K	80K
PHASE	3-phase in/3-phase out						
CAPACITY	10KVA/10KW	15KVA/15KW	20KVA/20KW	30KVA/30KW	40KVA/40KW	60KVA/60KW	80KVA/80KW
INPUT							
Nominal Voltage	3 x 400 VAC (3 Ph+N)						
Voltage Range	190-520 VAC (3-Phase) @ 50% Load; 305-478 VAC (3-Phase) @ 100% Load						
Frequency Range	46~54 Hz or 56~64 Hz						
Power Factor	≥ 0.99 @ 100% Load						
OUTPUT							
Output Voltage	3 x 360*/380/400/415 VAC (3 Ph+N)						
AC Voltage Regulation (Batt. Mode)	± 1%						
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz						
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz						
Current Crest Ratio	3:1 (max.)						
Harmonic Distortion	≤ 2 % THD (Linear Load); ≤ 4 % THD (Non-linear Load)						
Transfer Time	AC Mode to Batt. Mode	Zero					
	Inverter to Bypass	Zero					
Waveform (Batt. Mode)	Pure Sinewave						
Overload	AC Mode	100-110% for 10 min, 110-130% for 1 min, >130% for 1 second					
	Battery Mode	100-110% for 30 seconds, 110-130% for 10 seconds, >130% for 1 second					
Parallel Capacity	up to 3 units in parellel						
EFFICIENCY							
AC Mode	≥95.5%						
ECO Mode	98.5%						
Battery Mode	≥94.5%						

BATTERY							
Standard Model	Typical Type	12 V SLA AGM				N/A	
	Numbers	(10+10) pcs x 1 strings		(16+16) pcs x 2 strings			
	Typical Recharge Time	9 hours recover to 90% capacity					
	Charging Current (Max.)	1A/12A (Adjustable)					
	Charging Voltage	+/-136.5VDC +/- 10%		+/-218VDC +/- 10%			
Long-run Model	Battery Type	Suitable to the application					
	Numbers	20pcs		32~40 pcs (Adjustable)		32~40 pcs (Adjustable)	
	Charging Current (Max.)	1A/12A (Adjustable)		2A/24A (Adjustable)		2A/24A (Adjustable)	
	Charging Voltage	+/- 13.65V x N (N=16~20)					
INDICATORS							
LCD Display		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
PHYSICAL							
Standard Model	Dim, DxWxH (mm)	626x250x750		815 x 300 x 1000		N/A	
	Net Weight (kgs)	125	140	225	250		
Long-run Model	Dim, DxWxH (mm)	626x250x750		815 x 300 x 1000		790 x 360 x 1010	
	Net Weight (kgs)	30	45	60	61	108	113
ENVIRONMENT							
Operation Temperature		0-40 °C					
Operation Humidity		< 95% and non-condensing					
Noise Level		Less than 55dB @1 Meter 10K ; Less than 58dB @1Meter 15&20K ; Less than 65dB @1 Meter 30K Less than 70dB @1 Meter 40&60K Less than 75dB @1 Meter 80K					
MANAGEMENT							
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008, Windows 7/8/10, Linux and MAC					
Optional SNMP		Power management from SNMP manager and web browser					

