



# PT3P/3P 10-80KVA



- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- Active power factor correction in all phases
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Adjustable battery numbers for long-run model
- Maintenance bypass available
- Parallel operation with common battery
- Power walk-in function
- Optional parallel operation
- Optional isolation transformer offers full isolation and complete common mode noise rejection

## PT 3-phase in/3-phase out Online UPS Selection Guide

MODEL	10K (L)*	15K(L)	20K (L)*	30K (L)*	40K (L)	60KL	80KL	
<b>PHASE</b>	3Ph in/ 3Ph out or 3Ph in 1Ph out or 1Ph in 1Ph out			3-phase in / 3-phase out				
<b>CAPACITY</b>	10KVA /10KW	15KVA /15KW	20KVA /20KW	30KVA /30KW	40KV /40KW	60KVA /60KW	80KVA /80KW	
<b>PARALLEL CAPABILITY</b>	up to 4 units in parallel			up to 6 units in parallel				
<b>INPUT</b>								
Nominal Voltage	3X400Vac (3Ph+N) /230Vac(1Ph+N)			3 x 380/400/415 VAC (3Ph+N)				
Voltage Range	110-300 VAC @ 50% load 176-276 VAC @ 100% load			-30% ~ +20%				
Frequency Range	46-54 Hz or 56-64Hz			40-70 Hz				
Power Factor				≥ 0.99 @ 100% Load				
Harmonic Distortion (THDi)				< 4% at full linear load				
<b>OUTPUT</b>								
Output Voltage	3X380/400/415Vac (3Ph+N) or 208/220/230/240 VAC (1Ph+N)			3 x 360*/380/400/415 VAC (3Ph+N)				
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			50/60 Hz ± 1%				
Current Crest Ratio				3:1 (max.)				
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 Sine wave				
Overload Capability	AC Mode			100-110% for 60 min, 110-125% for 10 min, 125%~150% 1min, >150% immediately				
	Battery Mode			100-110% for 60 min, 110-125% for 10 min, 125%~150% 1min, >150% immediately				
<b>BYPASS</b>								
Nominal Voltage				3 x 380/400/415 VAC (3Ph+N)				
Voltage Range				-30% ~ +20% (Adjustable)				
Frequency Range (Synchronized Range)				46-54Hz or 56-64Hz				
Overload Capability				> 130% 1 minute (default) ; continuously working until breaker protection (optional)				
<b>EFFICIENCY</b>								
AC Mode				96.0%				
ECO Mode				99.0%				
Battery Mode				96.0%				
<b>BATTERY</b>								
Standard Model	Battery Type	12V Lead Acid	12V Lead Acid	12 V/7 Ah	12 V/9 Ah	N/A		
	Numbers	(10+10) PCS	(16+16) PCS	(16+16) pcs x 2 strings				
	Typical Recharge Time	4 hours recover to 90% capacity			9 hours recover to 90% capacity			
	Charging Current (max.)	2A (Adjustable)			1A ~ 12A			1A ~ 16A (Adjustable)
Long-run Model	Charging Voltage	+/-13.65V*N (N = 10)	+/-13.65V*N (N = 16~20)	+/-218 VDC ± 10%				
	Battery Type	Depending on the applications						
	Numbers	20PCS	32PCS	+/-16 pcs ~ +/- 20 pcs (Adjustable)				
	Charging Current (max.)	1A/2A/3A/4A/5A/6A/7A/8A/9A/10A/11A/12A (Adjustable)	12A maximum	1A ~ 12A (Adjustable)	1A~16 A (Adjustable)	2A~24 A (Adjustable)	2A~32A(Adjustable)	
	Charging Voltage	+/-136.5VDC±10%		+/-13.65V x N (N=16-20)				
<b>INDICATORS</b>								
LCD Panel	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions							
<b>PHYSICAL</b>								
Standard Model	Dimension,DxWxH (mm)	630 x 250 x 826		815 x 300 x 1000		N/A		
	Net Weight (kgs)	103	139	225	250			
Long-run Model	Dimension,DxWxH (mm)	630 x 250 x 826		815 x 300 x 1000		790 x 360 x 1010		
	Net Weight (kgs)	36	43	60	67	108	113	
<b>ENVIRONMENT</b>								
Operation Temperature	0-40°C							
Operation Humidity	< 95% and non-condensing							
Altitude**	0 ~ 1500m at full load							
Noise Level	Less than 60 dB@1 Meter	Less than 65 dB @1 Meter	Less than 63 dB @1 Meter	Less than 65 dB @1 Meter				
<b>MANAGEMENT</b>								
Smart RS-232 / USB	Supports Windows® Family, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							

\*If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.  
 \*\*If the UPS is installed or used in a place where the altitude is higher than maximum height, the output power will be derated 1% per 100m.  
 Product specifications are subject to change without further notice.