



*Quality Energy Provider*



# TP110

## LINE INTERACTIVE UPS SELECTION GUIDE

- PURE SINE WAVE
- BUILT-IN POWERFUL CHARGER WITH INPUT POWER FACTOR CORRECTION
- TOWER AND RACK CONVERTIBLE DESIGN
- STANDARD AND LONG RUN-TIME MODELS AVAILABLE
- MULTI-INTERFACE SLOT FOR RS-232, SNMP, USB, DRY CONTACT, AS400, MODBUS AND CUSTOMIZED INTERFACES
- BUILT-IN COMMUNICATION PORT CAN FUNCTION WELL WITH MULTI-INTERFACE SLOT AT THE SAME TIME
- HOT-SWAPPABLE BATTERY DESIGN
- EMERGENCY POWER OFF (EPO) FUNCTION
- COLD START FUNCTION

# TP110

## TP110 LINE INTERACTIVE SINEWAVE UPS SELECTION GUIDE

MODEL	TP110 1K	TP110 1,5K	TP110 2K	TP110 3K	TP110 5K	TP110 7.5K	TP110 10K
POWER	1000 VA / 625 W	1500VA / 938 W	2000 VA / 1250 W	3000 VA / 1875 W	5000 VA/ 3125 W	7500 VA/ 4688 W	10000 VA/ 6250 W
<b>INPUT</b>							
Voltage Range	Acceptable Voltage Range	170 - 300 VAC or 85 - 150 VAC*				170 VAC - 300 VAC	
	Low Line Transfer	170 VAC ± 2% or 85 VAC ± 2%*				170 VAC ± 2%	
	Low Line Comeback	180 VAC ± 2% or 90 VAC ± 2 %*				180 VAC ± 2%	
	High Line Transfer	300 VAC ± 2% or 150 VAC ± 2%*				300 VAC ± 2%	
	High Line Comeback	290 VAC ± 2% or 145 VAC ± 2%*				290 VAC ± 2%	
Frequency Range	45 Hz ~ 70 Hz						
<b>OUTPUT</b>							
AC Voltage Regulation (Batt. Mode)	< 3% RMS for entire battery voltage range						
Frequency Range (Batt. Mode)	50 Hz or 60 Hz ± 0.1 Hz						
Power Factor	0,625						
Efficiency	> 80%						
Overload Protection	AC Mode	> 110%, then alarms and yellow LED flahes continuously					
	Battery Mode	110 % ~ 150% for 30 sec, > 150% for 200 ms, then UPS shutdown					
Short Circuit Protection	AC Mode	Circuit Breaker					
	Battery Mode	Electronic Circuit					
Waveform (Batt. Mode)	Pure Sine Wave						
Transfer Time (Typical)	< 4 ms						
<b>BATTERY</b>							
Battery Type	24 V / 7.2 AH	36 V / 7,2 AH	36 V / 9 AH	36 V / 7.2 AH	48 V / 9 AH	48 V / 7.2 AH	48 V / 9 AH
Numbers	2	3	3	6	8	16	16
Backup time at 50% rated load	12 min.	12 min.	12 min.	12 min.	15 min.	14 min.	15 min.
Typical Recharge Time	8 hours recover to 90% capacity						
<b>CONTROL PANEL</b>							
LED Display	UPS Status, I/P & O/P Voltage Frequency, Load Level, Battery Voltage & level, Temperature, Model						
LCD Display	AC Mode, Warning, Fault						
<b>ALARM</b>							
Battery Mode	Sounding every 4 seconds						
Low Battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continously sounding						
Output Receptacles	NEMA*	6	6	6	8	8+1 x Terminal Block	4 + 1 x Terminal Block
	IEC	6	6	6	8	10+1xTerminal Block	5 + 1 x Terminal Block
Dimension, D X W X H (mm)	465 X 440 X 88	465 X 440 X 88	465 X 440 X 88	465 X 440 X 132	620 X 440 X 132	465 X 440 X 132	
Net Weight (kgs)	16	18	24,5	24,5	36,9	34,6	36,6
<b>ENVIRONMENT</b>							
Humidity	0-95% RH @ 0 - 40°C (non-condensing)						
Noise Level	Less than 55dB @ 1 Meter						
<b>MANAGEMENT</b>							
Standard Communication Interface	RS-232						
Optional Multi-interface Cards	Various selections of RS-232, SNMP, USB, Dry Contact, AS400, and Modbus for multi-interface slot. Function well with built-in port at the same time.						

**Note:** available in long run version

Product specifications are subject to change without further notice

\*on request