

On-Line Tower UPS

FARPAK

EP

TL A Series 1~3Kva 1:1phase



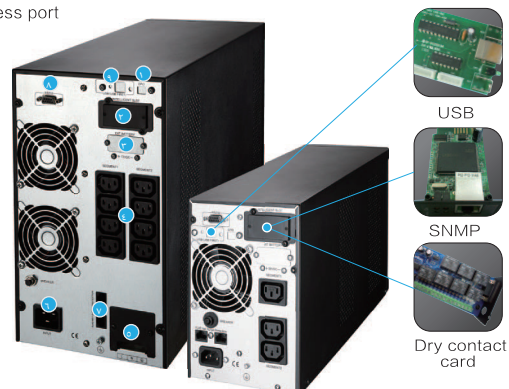
Features

- True double-conversion
- Digital control guarantees high reliability
- ECO mode operation for energy saving
- Output receptacle control for non-critical load shedding capability
- Emergency power off function(EPO)
- Generator compatible
- Communications:RS-232,USB,SNMP card(Optional), Relay card (Optional)
- Bypass can be used when UPS is off(Setted in LCD)
- Cold start



Control Panel
Up to 50 items set by LCD

- 1.EPO port
- 2.Intelligent slot for SNMP card,dry contact card etc.
- 3.External battery cabinet connector
- 4.Output slots including two segments
- 5.Output terminals
- 6.Input slot
- 7.RJ45 surge suppress port
- 8.RS232 port
- 9.USB port



Rear Panel



Technical Specifications

MODEL	TLA1-24	TLA1(I)	TLA1	TLA1.5(I)	TLA1.5	TLA2-48	TLA2(I)	TLA2-96	TLA2	TLA2-96(I)	TLA3(I)	TLA3-96	TLA3	TLA3-96(I)
Capacity (VA/Watts)	1000VA/900W		1500VA/1350W			2000VA/1800W				3000VA/2700W				
INPUT														
Nominal Voltage	208/220/230/240Vac(L+N+PE)													
Operating Voltage Range	110~300Vac @(0~60%) Load;120~300Vac @(60~70%)Load,140~300Vac @(70~80%)Load;160~300Vac @(80~100%)Load													
Operating Frequency Range	50Hz: 45~55Hz, 60Hz: 55~65Hz Auto Sensing													
Power Factor	> 0.85@25%Load;>0.95 @50%Load;>0.97@75%Load;>0.99 @ Nominal voltage& 100%Load													
OUTPUT														
Output Voltage	208/220/230/240Vac:230Vac(Default)													
Power Factor	0.9													
Voltage Regulation	± 1%													
Frequency	Synchronized Range	45~55Hz ± 0.02Hz@ 50Hz, 55~65Hz ± 0.02Hz@60Hz												
	Battery Mode & None Synchronized Range	(50/60 ± 0.02)Hz												
Crest Factor	3:1													
Harmonic Distortion (THDv)	≤3% with linear load													
	≤5% with non-linear load													
Waveform	Pure Sinewave													
Transfer Time	Utility to Battery : 0ms; Utility to Bypass: 4ms(Typical)													
EFFICIENCY														
AC Mode	88%		88%			89%				90%				
Battery Mode	84%	85%	85%	85%	85%	86%				87%				
ECO Mode	>93%		>94%											
BATTERY														
Battery Type	12V/9AH	12V/7AH/9AH	12V	12V/7AH/9AH	12V	12V/9AH	12V/7AH/9AH	12V/7AH	12V	12V/9AH	12V/7AH	12V	12V	12V
Numbers	2	3	3 × N	3	3 × N	4	6	8	6 × N	8 × N	6	8	6 × N	8 × N
Maximum Charging Current (A)	1.0		6.0/12.0	1.0	6.0/12.0	1.0			6.0/12.0		1.0		6.0/12.0	
Charging Voltage(Vdc)	27.4V ± 1%	41.1V ± 1%			54.8 ± 1%		82.2V ± 1%	109.6V ± 1%	82.2V ± 1%	109.6V ± 1%	82.2V ± 1%	109.6V ± 1%	82.2V ± 1%	109.6V ± 1%
Protect	Over-voltage(14.4v) /Low-voltage(10v)													
PROTECTION														
Overload	Line Mode	105%~150%, 30s turn to bypass mode ; >150% 300ms turn to bypass mode												
Capacity	Battery Mode	105%~150%, exceed 30s shutdown ; >150% exceed 300ms shutdown												
INDICATORS														
LED & LCD Display	Load/Battery/Input/Output/Operating Mode Information													
ALARM														
Battery Mode	Sounding every 4 seconds													
Battery Low	Sounding every second													
Overload	Sounding every 0.5 second													
Fault	Continuously Sounding													
MANAGEMENT														
Smart RS-232/USB(Preferential)	External Modbus card supported by RS232,Software supports Windows Family,Linus,FreeBSD													
Intelligent Slot	SNMP (Standard or mini) independent to RS-232(Optional)													
ENVIRONMENT														
Operating Temperature	0 ~ 40°C													
Humidity Range	0 ~ 95% (Non-condensing)													
Altitude	< 1500m													
Noise Level	<50dB@ 1Meter													
PHYSICAL														
Dimension W × D × H (mm)	144 × 400 × 215					191 × 468 × 337								
Net Weight (kg)	11.3	13.7	5.9	13.9	6.2	21.9	26.9	29.6	10.6	10.8	27.4	30.1	11.1	11.3
STANDARDS														
Safety	IEC/EN62040-1													
EMC	IEC/EN62040-2													

Specifications are subject to change without prior notice.