

TM11E SERIES PF0.9 Power range: 1kVA~3kVA

1:1



Features:

- High power density
- Online double conversion with full digital control
- Wide input voltage range: 110~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Maximum charging current can be expanded to 12A (Long run unit)
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Cold start function
- Intelligent fan speed regulation
- Load segment settable (Optional)
- Multiple communication interface:
RS232 (USB/EPO/Relay card/SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm



ON LINE



TOWER



DATA CENTRE



E-MEDICAL



INDUSTRY



TRANSPORT



EMERGENCY

TM11E Transformer-less Online Tower UPS

TM11E 1KS/L | TM11E 2KS/L | TM11E 3KS/L

TM11E Technical Specifications:

		TM11E											
Model		TM11E 1k L		TM11E 1k S		TM11E 2k L		TM11E 2k S		TM11E 3k L		TM11E 3k S	
Capacity		1000VA/900W				2000VA/1800W				3000VA/2700W			
INPUT													
Nominal voltage		208/220/230/240Vac											
Input voltage range		110~300Vac (176~264Vac @ 100% load)											
Power factor		≥0.99											
FREQUENCY													
Frequency range		40~70Hz (50/60Hz Auto-Sensing)											
OUTPUT													
Output voltage		208/220/230/240Vac											
Voltage regulation		±1%											
Power factor		0.9											
Output frequency	Line mode	46~54Hz or 56~64Hz											
	Bat. mode	(50/60±0.1%)Hz											
Crest factor		3:1											
Harmonic distortion (THDv)		≤3% Linear load											
		≤5% Non linear load											
Transfer time	AC mode to Bat.mode	0ms											
	Inverter to Bypass	4ms (Typical)											
Output waveform		Pure Sinewave											
EFFICIENCY													
AC mode		88%				92%				92%			
Battery mode		85%				88%				89%			
BATTERY													
Battery number		2	3	2	3	4	6	4	6	6	8	6	8
Capacity (Standard unit)		9Ah/12V (7Ah/12V optional)											
Typical recharging time		4 hours (To 90% of full capacity)											
Charging voltage		27.4Vdc±1%	41.1Vdc±1%	27.4Vdc±1%	41.1Vdc±1%	54.8Vdc±1%	82.2Vdc±1%	54.8Vdc±1%	82.2Vdc±1%	82.2Vdc±1%	109.6Vdc±1%	82.2Vdc±1%	109.6Vdc±1%
Charging current (Max.)		6A		1.4A		6A		1.4A		6A		1.4A	
INDICATORS													
LED display		Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault											
LCD display		Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature& Remaining battery backup time											
ALARM													
Battery mode		Beeping every 4 seconds											
Battery low		Beeping every second											
Overload		Beeping twice every second											
Fault		Continously beeping											
PHYSICAL													
Dimension W×D×H		144×293×209mm			144×399×209mm	191×460×337mm							
Net weight		4.1kg		9.3kg	12.5kg	10kg		19.5kg	24.5kg	10kg		24.5kg	29.5kg
ENVIRONMENT													
Operating temperature		0°C~40°C											
Storage temperature		-25°C~55°C											
Humidity range		20~95%RH @ 0~40°C (Non condensing)											
Altitude		<1500m, derating required when>1500m											
Noise level		<50dB at 1 Meter											
STANDARDS													
Safety		IEC/EN 62040-1, IEC/EN 62477-1											
EMC		IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)											

1. When output voltage is 208Vac, need to derate to 80% of the unit capacity
2. Specifications are subject to change without prior notice
3. Data above are typical values for reference only, not as a basis for engineering design

TC 1-3kVA battery pack specification

	Tower Cabinet				
Model	TC04024C-B	TC06036C-B	TC08048C-B	TC12072C-B	TC16096C-B
BATTERY SYSTEM					
Battery type	VRLA (Lead acid maintenance free battery)				
Typical battery recharging time	6~8 hours (To 90% of full capacity)				
Typical battery life	3~5 years, depend on discharging cycle and ambient temperature				
System voltage	24Vdc	36Vdc	48Vdc	72Vdc	96Vdc
Charging current (Max.)	1.4A				
Battery quantity	4	6	8	12	16
Capacity	9Ah/12V (7Ah/12V optional)				
PHYSICAL					
Dimension W×D×H	144×399×209mm		191×460×337mm		
Net weight	13.5kg	18.5kg	28.5kg	38.5kg	47.5kg
ENVIRONMENT					
Safety	CE				
Operating environment	0°C~40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	<40dB at 1 Meter				

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- Remark: TC08048C ; "TC" means Tower cabinet; "08" means battery number inside the cabinet;
"048" means the battery system voltage; "C" means the cabinet coming with charger

