

**TM11E SERIES PF1 (PF 0.9 optional) Power range: 6kVA~10kVA**

**1:1**



**Features:**

- N+X parallel redundancy, support maximum 4 units in parallel
- Online double conversion with full digital control
- Optimization battery group, the quantity of battery: 16/18/20pcs (Settable)
- Wide input voltage range: 110~286Vac
- Wide input frequency range
- Selectable output voltage: 208/220/230/240Vac
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/EPO (Relay card/SNMP card optional)
- Maximum charging current up to 10A
- Cold start function
- Design with maintenance switch (Optional)
- Intelligent fan speed regulation
- 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 6k H | TM11E 6k S | TM11E 10k H | TM11E 10k S

## TM11E Technical Specifications:

		TM11E			
Model		TM11E 6k H	TM11E 6k S	TM11E 10k H	TM11E 10k S
Capacity		6000VA/6000W		10000VA/10000W	
<b>INPUT</b>					
Nominal voltage		208/220/230/240Vac			
Input voltage range		110~286Vac			
Power factor		0.99			
Bypass voltage range		Max.voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)			
<b>FREQUENCY</b>					
Frequency range		40~70Hz (50/60Hz Auto-Sensing)			
<b>OUTPUT</b>					
Output voltage		208/220/230/240Vac			
Voltage regulation		±1%			
Power factor		1			
Output frequency	Line mode	±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional)			
	Bat. mode	(50/60±0.1%)Hz			
Crest factor		3:1			
Harmonic distortion (THDv)		≤2% Linear load ≤5% Non linear load			
Transfer time	AC mode to Bat.mode	0ms			
	Inverter to Bypass	0ms			
Output waveform		Pure Sinewave			
Overload	Line mode	Load≤110% last 60min; ≤125% last 10min; ≤150% last 1min; >150% turn to bypass mode immediately			
	Bypass mode	40A (Breaker)		63A (Breaker)	
Efficiency		up to 93.5%			
<b>BATTERY</b>					
Battery voltage		±96/±108/±120Vdc (Settable)	±120Vdc	±96/±108/±120Vdc (Settable)	±120Vdc
Capacity (Standard unit)		9Ah/12V (7Ah/12V optional)			
Typical recharging time		6~8 hours (To 90% of full capacity)			
Charging current		1.35A (Standard unit); Long run unit Max.current 10A (Charging current can be set according to battery capacity)			
<b>INDICATORS</b>					
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			
<b>ALARM</b>					
Battery mode		Beeping every 4 seconds			
Battery low		Beeping every second			
Overload		Beeping twice every second			
Fault		Continuously beeping			
<b>PHYSICAL</b>					
Dimension W×D×H		H: 191×460×337mm; S: 191×460×720mm (With wheel)			
Net weight		12.5kg	70kg	14kg	71.5kg
<b>ENVIRONMENT</b>					
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		<55dB at 1 Meter		<58dB at 1 Meter	
<b>STANDARDS</b>					
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 6-10kVA battery pack specification

	TC40120N
<b>BATTERY SYSTEM</b>	
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	±120Vdc
Battery quantity	2×20 PCS
Capacity	7Ah/9Ah (12V)
<b>PHYSICAL</b>	
Dimension W×D×H	250×619×616mm (With wheel)
Net weight	122kg/134kg
<b>ENVIRONMENT</b>	
Safety	CE
Operating environment	0°C~40°C
Relative humidity	0~95% (Non condensing)
Noise level	<40dB at 1 Meter

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2. Data above are typical values for reference only, not as a basis for engineering design
3. Remark: TC40120N; "TC" means Tower cabinet; "40" means battery number inside the cabinet; "120" means the battery system voltage; "N" means battery with neutral connection

