

RM11E SERIES PF0.9 Power range: 1kVA~3kVA

1:1



Features:

- Rack/Tower convertible design
- 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-Optional)
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Hot-Swappable battery design
- Cold start function
- Intelligent fan speed regulation
- Load segment settable (Optional)
- Versatile LCD human-computer interface
- 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
- PDU with maintenance bypass switch (Optional)



ON LINE



Tower/Rack



DATA CENTRE



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TRANSPORT



EMERGENCY

RM11E RT Convertible Double Conversion On-Line UPS

RM11E RT1K L/S | RM11E RT2K L/S | RM11E RT3K L/S

RM11E Technical Specifications:

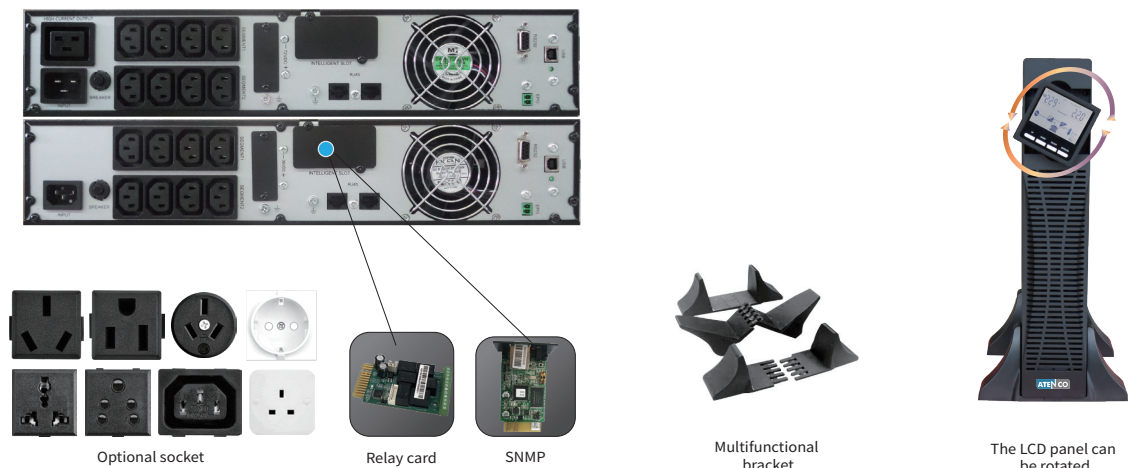
		RM11E											
Model		RM11E RT 1k L		RM11E RT 1k S		RM11E RT 2k L		RM11E RT 2k S		RM11E RT 3k L		RM11E RT 3k S	
Capacity		1000VA/900W				2000VA/1800W				3000VA/2700W			
INPUT													
Nominal voltage		208/220/230/240Vac											
Input voltage range		110~300Vac (176~264Vac @ 100% load)											
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		90.9%				92%				92.3%			
BATTERY													
Battery number		2	3	2	3	4	6	4	6	6	8	6	
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%	
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		440×325×86.5mm			440×460×86.5mm	440×600×86.5mm		440×460×86.5mm	440×600×86.5mm				
Net weight		5.6kg		11.3kg	14kg	10.5kg		19.5kg	25kg	11kg		26kg	
ENVIRONMENT													
Operating temperature		0℃~40℃											
Storage temperature		-25℃~55℃											
Humidity range		20~95%RH @ 0~40℃ (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

RC 1-3kVA battery pack specification

	Rack Cabinet				
Model	RC04024E-B	RC06036E-B	RC08048E-B	RC12072E-B	RC08096E-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	8
Capacity	9Ah/12V (7Ah/12V optional)				
PHYSICAL					
Dimension W×D×H	440×430×86.5mm		440×550×86.5mm	440×710×86.5mm	440×550×86.5mm
Net weight	17.4kg	22.5kg	31.5kg	44kg	31.5kg
ENVIRONMENT					
Safety	CE				
Operating environment	0°C~40°C				
Relative humidity	0~95% (Non condensing)				
Noise level	<40dB at 1 Meter				

1. Specifications are subject to change without prior notice
2. Data above are typical values for reference only, not as a basis for engineering design
3. Remark: RC08048E; "RC" means Rack Cabinet; "08" means battery number inside the Rack; "048" means the battery system voltage; "E" means the Rack coming with charger



RM11E SERIES PF0.9 Power range: 6kVA~10kVA



Features:

- High power density
- LCD supports Rack/Tower convertible design
- 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
- Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup
- Multiple communication interface: RS232/USB/PO (Relay card/SNMP card optional)
- Parallel kit default
- Maximum charging current up to 10A
- Cold start function
- Intelligent fan speed regulation
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- PDU with maintenance bypass switch (Optional)



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Tower Rack



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RM11E RT Convertible Double Conversion On-Line UPS

RM11E RT6K | RM11E RT10K

RM11E Technical Specifications:

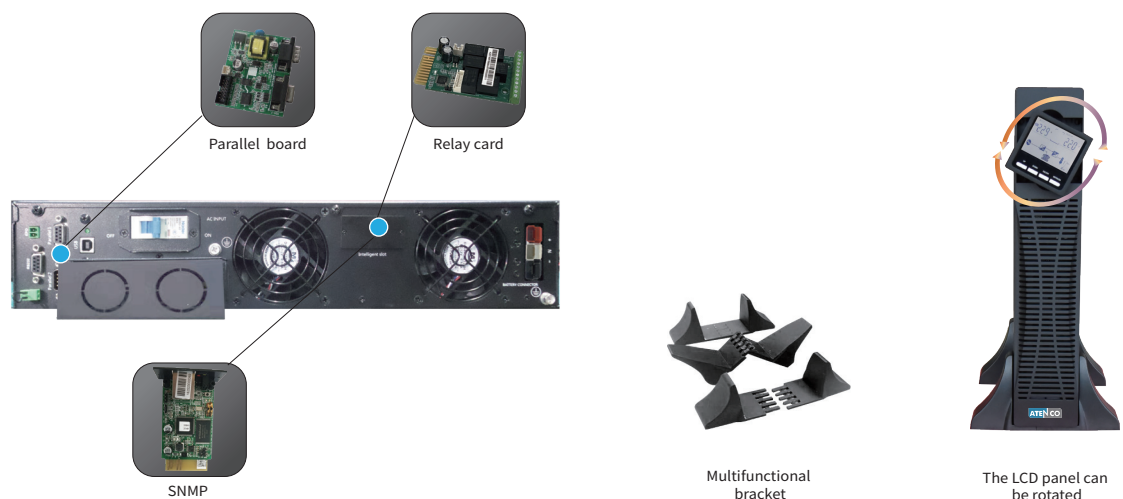
		RM11E	
Model		RM11E RT 6K / RM11E 6KVA L	RM11E RT 10K / RM11E 10KVA L
Capacity		6000VA/5400W	10000VA/9000W
INPUT			
Nominal voltage		208/220/230/240Vac	
Input voltage range		110～286Vac	
Power factor		≥0.99	
Bypass voltage range		Max.voltage: 220V: +25% (Optional +10%, +15%, +20%) 230V: +20% (Optional +10%, +15%) 240V: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)	
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	±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 94%	
BATTERY			
Battery voltage		±96/±108/±120Vdc (Settable)	
Typical recharging time		6~8 hours (To 90% of full capacity)	
Charging current		Max.current 10A (Charging current can be set according to battery capacity)	
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		440×625×86.5mm	
Net weight		16kg	18kg
ENVIRONMENT			
Operating temperature		0℃～40℃	
Storage temperature		-25℃～55℃	
Humidity range		20～95%RH @ 0～40℃ (Non condensing)	
Altitude		<1500m, derating required when>1500m	
Noise level		<55dB at 1 Meter	<58dB 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

RC 6-10kVA battery pack specification

	Rack Cabinet
Model	RC20120N / RC20120N-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	±120Vdc
Battery quantity	1×20 PCS
Capacity	9Ah (12V)
PHYSICAL	
Dimension W×D×H	440×680×131mm (3U)
Net weight	63kg
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: RC20120N; "RC" means Rack Cabinet; "20" means battery number inside the Rack; "120" means the battery system voltage; "N" means battery with neutral connection



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

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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



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TM11E Transformer-less Online Tower UPS

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

TM11E Technical Specifications:

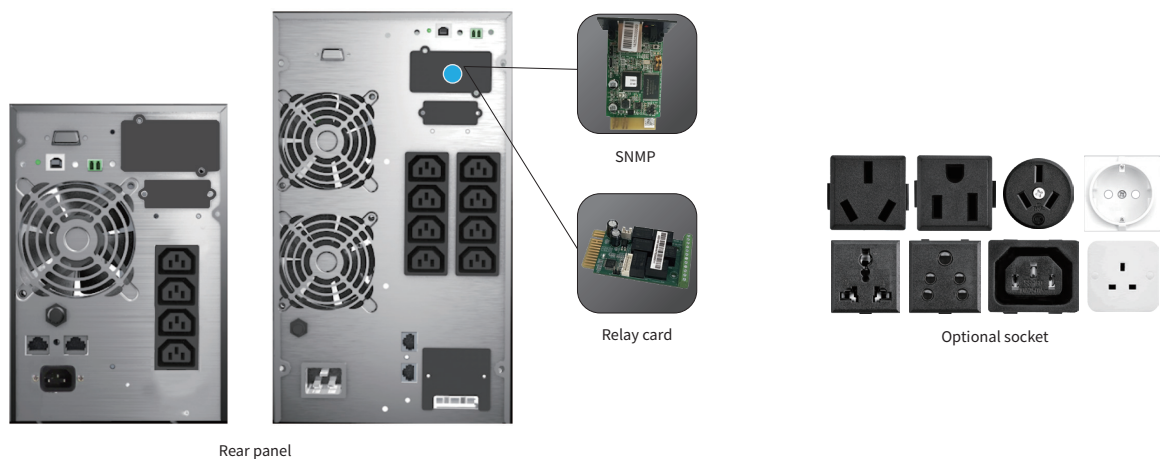
		TM11E											
Model		TM11E 1k L		TM11E 1k S		TM11E 2k L		TM11E 2k S		TM11E 3k L		TM11E 3k S	
Capacity		1000VA/900W				2000VA/1800W				3000VA/2700W			
INPUT													
Nominal voltage		208/220/230/240Vac											
Input voltage range		110~300Vac (176~264Vac @ 100% load)											
Power factor		≥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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- Data above are typical values for reference only, not as a basis for engineering design
- 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



TM11E SERIES PF0.9 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



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TM11E Transformer-less Online Tower UPS

TM11E 6k L | TM11E 6k S | TM11E 10k L | TM11E 10k S

TM11E Technical Specifications:

		TM11E			
Model		TM11E 6KVA L	TM11E 6KVA 16X9	TM11E 10KVA L	TM11E 10KVA 20X9
Capacity		6000VA/5400W		10000VA/9000W	
INPUT					
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%)			
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	±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%			
BATTERY					
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 default; Max.current 10A (Charging current can be set according to battery capacity)			
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		Continuously beeping			
PHYSICAL					
Dimension W×D×H		H: 191×460×337mm; S: 191×460×720mm (With wheel)			
Net weight		12.5kg	70kg	14kg	71.5kg
ENVIRONMENT					
Operating temperature		0℃~40℃			
Storage temperature		-25℃~55℃			
Humidity range		20~95%RH @ 0~40℃ (Non condensing)			
Altitude		<1500m, derating required when>1500m			
Noise level		<55dB at 1 Meter		<58dB 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 6-10kVA battery pack specification

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

1. Specifications are subject to change without prior notice
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

