



TM66E Modular Series



Modular design

- All units adopt modular design, including power module, bypass module, monitoring module, can be easily integrated in MDC or customized cabinet
- Power module, Bypass module, Monitoring module, ECU control module, all these modules are hot-swappable

High reliability

- Wide input voltage range, line voltage range is 138-485V,
 UPS will derate to 40% when input voltage is below 305V
- UPS adopts multiple digital bus and redundancy parallel control system, making sure the whole system keep online if any single circuit fail
- The UPS will keep on single or parallel working, if any module fail
- Thickened conformal coating, applicable for harsh environment such as high heat, high humidity, dust, salt spray

Green and power saving

- · High input power factor, it is up to 0.99
- 3-level topology design, efficiency is up to 95.8%
- THDi<3% (100% linear load)
- The UPS will work in sleeping mode when the load is very small

LBS function

 LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system

Parallel redundancy function

- Support parallel expanded operation: maximum is 8 units
- · Support sharing batteries for the UPS in parallel

Build-in battery design

- Integrated solution, no additional battery cabinet is required, saving construction costs
- Maximum 6 groups of intenal batteries, selectable according to autonomy time requirement

Strong load capability

- Output power factor is 1.0, UPS can supply power to 100% unbalanced load
- High adaptability for load, it can connect full inductive load or capacitive load

Intelligent management

- With 7 inches (Standard) and 10 inches (Optional) colorful touch LCD screen
- Support recording and exporting history logs and fault logs
- · Support SNMP, RS232, RS485, Dry contact interface
- · Support upgrading FW&SW on line
- EPO & REPO function

Compatible with generator

 Power Walk In function, it can reduce the start current impact to system, and it can reduce the capacity of generator

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Technical Specifications

		TM66E				
Cabinet Model		TM66E-30	TM66E-45	TM66E-50	TM66E-60	TM66E-75
Cabinet capacity		30kVA	45kVA	50kVA	60kVA	75kVA
Iodule Model		TM66E-RM-10/15	TM66E-RM-15	TM66E-RM-10/25	TM66E-RM-20/30	TM66E-RM-15/25
Module capacity		10kVA/15kVA	15kVA	10kVA/25kVA	20kVA/30kVA	15kVA/25kVA
lax. number*	.y	3+2/2+3	3+2	5/2+3	3+2/2+3	5/3+2
NPUT		3.2/2.3	3.2	3/2.3	3.2/2.3	3/312
ominal voltag	ge			380/400/415Vac, (3Ph+N+PE)		
perating volta	age range		138~305	SVac for 40% load; 305~485Vac for 1	.00% load	
Operating frequency range		40Hz~70Hz				
Power factor		≥0.99				
armonic dist	ortion (THDi)			≤3% (100% linear load)		
Bypass voltage range		Max. voltage: 220V: +25% (Optional+10%, +15%, +20%) 230V: +20% (Optional+10%, +15%) 240V: +15% (Optional+10%) Min. voltage: -45% (Optional-10%, -15% - 20%, -30%)				
Bypass freque	ncy range			Frequency protection range: ±10		
Power walk in		Support				
Generator input		Support				
UTPUT						
Rated voltage				380/400/415Vac, (3Ph+N+PE)		
Power factor		1.0				
Voltage regulation		±1%				
Output Line mode		Synchronize with input, when the input frequency $>\pm10\%$ ($\pm1\%/\pm2\%/\pm4\%/\pm5\%$ optional), output 50/60 (±0.1 Hz)				
requency Bat. mode		(50/60±0.1%)Hz				
Crest factor		3:1				
Harmonic distortion (THDv)		≤2% with linear load; ≤4% with nonlinear load				
Efficiency		up to 95.8%				
ATTERY						
Battery voltage		± 240 Vdc (6×40pcs 9Ah/12V)				
Power module charge current		18A (Max.)				
YSTEM FEATU	JRES					
ransfer time				y to Battery: 0ms; Utility to Bypas		
Overload Inverter mode		≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter				
Overheat Bypass mode		30°C: 135% for long term; 40°C: 125% for long term; > 1000%, 100ms				
		Line Mode: Switch to Bypass; Backup Mode: Shut down UPS immediately				
Low battery voltage		Alarm and Switch off				
Self-diagnostics		Upon Power On and Software Control				
Backfeed protection EPO (Optional)		Support				
, ,		Shut down UPS immediately (Turn to bypass optional)				
Battery		Advanced Battery Management				
Noise suppression Audible & visual alarms		Complies with EN62040-3				
Status LED & LCD display		Line Failure, Battery Low, Overload, System Fault				
Reading on the LCD display		Line Mode, Bypass Mode, Battery Low, Battery Fault, Overload & UPS Fault				
Communication interface		Input, Output, Battery, Command, Setting, Maintenance RS232, RS485, Parallel, LBS, Dry contact port, Relay card (Optional), SNMP card (Optional), Battery temperature sensor (Optional)				
		RS232, RS485, Pa	railei, LBS, Dry contact port, Re	elay card (Optional), SNMP card (Optional), Battery temperature s	sensor (Optional)
NVIRONMENT				0%5 - 40%5		
Operating temperature Storage temperature		0°C~40°C				
Humidity range		-25°C~55°C 0~95% (Non condensing)				
Altitude		0~95% (Non condensing) <1500m, derating required when >1500m				
Noise level		<1500m, derating required when >1500m <61dB <58dB <61dB				
HYSICAL			Soud		<0T0R	
imension	UPS cabinet			600×1000×2000mm		
/×D×H	Power module			440×620×86mm (2U)		
	UPS cabinet					
let weight	(Without battery)	310kg (MAX.)				
_	Power module			10kVA: 19kg; 15~30kVA: 21kg		
TANDARDS	Tower module					
TANDARDS afety	T GWCT III GGGC			IEC/EN 62040-1, IEC/EN 62477-	1	

- * 3+2 means 2 power modules are used as redundancy module

 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

