

TM33E SERIES PF 1.0 Power range: 50kVA~200kVA

3:3



Features

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage > 305Vac
- Smallest Footprint Design
- 3-level inverter-controlled technology
- Output Power Factor at 1.0
- System Efficiency up to 95.5%
- Unity Power Factor and Low Input Distortion
- ECO Mode for energy saving
- Programmable battery voltage from +/-180Vdc to +/-300Vdc
- Superior Overload Capability
- Support parallel expanded operation: maximum is 8 units
- Support sharing batteries for the UPS in parallel
- DC Start function
- Powerful charger up to 60A
- Dual Input source
- 3-level intelligent Charge Modes with Smart Charge Current Adjustment
- Emergency Power Off
- LBS function can realize 2 independent UPS system work in synchronization, and it enhances the reliability of the system
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card(Optional), Relay card (Optional), Battery temperature sensor (Optional)



ON LINE



TOWER



DATA CENTRE



E-MEDICAL



INDUSTRY



TRANSPORT



EMERGENCY

TM33E
Transform-less Online Tower UPS

TM3350-E | TM3360-E | TM3380-E | TM33100-E | TM33120-E | TM33160-E | TM33200-E

TM33E Technical Specifications

		TM33E						
Model	50kVA	60kVA	80kVA	100kVA	120kVA	160kVA	180kVA	200kVA
Capacity(Watts)	50kW	60kW	80kW	100kW	120kW	160kW	180kW	200kW
INPUT								
Nominal voltage	380/400/415Vac, (3Ph+N+PE)							
Operating voltage range	138-485Vac							
Operating frequency range	40Hz-70Hz							
Power factor	≥0.99							
Harmonic distortion (THDi)	≤3% (100%non-linear load)							
Bypass voltage range	220Vac Max.voltage: +25%(optional +10%,+15%,+20%) 230Vac Max.voltage: +20%(optional +10%,+15%) 240Vac Max.voltage: +15%(optional +10%) Min. voltage: -45% (optional -20%,-30%) Frequency synchronize tracing range: ±10%							
Icc	10kA							
Generator input	Support							
OUTPUT								
Output voltage	380/400/415Vac (3Ph+N+PE)							
Voltage regulation	±1%							
Power factor	1							
Output frequency	1.Line Mode: synchronize with input; when input frequency > ±10% (±1%/±2%/±4%/±5% optional) 2.Battery Mode:50/60*(1±0.02%)Hz							
Crest factor	3:1							
Harmonic distortion (THD)	≤2% with linear load ≤4% with non linear load							
Efficiency	95.50%							
BATTERY								
Battery Voltage	Optional Voltage: ±180V/±192V/±204V/±216V/±228V/±240/±252/±264/±276/±288/±300Vdc(30/32/34/36/38/40/42/44/46/48/50pcs optional) 360Vdc-600Vdc (30-50 pcs, 30 pcs define, 36- 50 pcs no power derating; 32-34 pcs output power factor 0.9;30 pcs output power factor 0.8.)							
Charge Current(A) (charge current can be set according to battery capacity installed)	Max. current 20A			Max. current 40A				Max. current 60A
SYSTEM FEATURES								
Transfer Time	Utility to Battery : 0ms; Utility to bypass: 0ms							
Overload	Load ≤110%: last 60min, ≤125%: last 10min, ≤150%: last 1min							Load ≤110%: last 60min, ≤125%: last 1min, ≤150%: last 1.2s
Alarm	overload, utility abnormal, UPS fault, battery low, etc.							
Backfeed	Support							
Protection	short circuit, overload, over temperature, battery low, fan fault alarm.							
Communication	USB, RS232, RS485, Parallel port, REPO port, LBS port, Backfeed port, Intelligent slot, SNMP card (optional), Relay card(optional)							
ENVIRONMENT								
Operating Temperature	0°C~40°C							
Storage Temperature	-25°C~55°C(no battery)							
Humidity Range	0~95%(non condensing)							
Altitude	<1500m.When>1500m,lower the rated power for use							
Noise Level	<58dB	<60dB	<61dB	<62dB	<63dB	<66dB	<68dB	<68dB
PHYSICAL								
Dimension W*H*D(mm)	250*868*828				442*1200*850			
Net Weight(kg)	80	83	144	147	155	190	215	230
STANDARDS								
Safety	IEC/EN 62040-1, IEC/EN 60950-1							
EMC	IEC/EN 62040-3, IEC61000-4-2,IEC61000-4-3, IEC61000-4-4,IEC61000-4-5, IEC61000-4-6, IEC61000-4-8							

Specifications subject to change without prior notice.

*PF=0.9 models also available



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