

DT Series

Three-Phase Modular UPS (Rack)

Capacity

40kVA-180kVA

Applications

Government; Military; Telecom; Power; Transportation; Broadcasting; Taxation; Finance; Healthcare; Education; Petrochemical; Internet.

Features

Efficient

- The output power factor is up to 1.0. The loading capacity is increased by more than 10% than traditional UPS;
- The system efficiency is as high as 96%, with energy consumption and operation cost save by more than 20% each year;
- Intelligent self-aging function saves energy by more than 95% (not necessary to rent fake load), saving operation and installation costs for users;
- With input current harmonics less than 3% and input power factor as high as 0.99, the power grid is protected from harmonic pollution;
- Intelligent hibernation function improves the efficiency of the system under light load and saves energy.

Reliable

- Patented parallel technology ensures the reliability of multiple modules in parallel;
- The communication signal cables are designed with independent routing and metal cover protection to prevent system malfunctions due to misoperation and other interference;
- UPS can interact with lithium battery BMS system in real time to realize the intelligent management and linkage of the UPS to the battery to prevent the it from getting out of control;
- The system adopts decentralized control logic to avoid the risk of single point of failure caused by centralized control;
- Auto-start. After shutting down by low-voltage battery protection, the inverter will automatically start up and charge the battery once the mains power is restored.



40kVA-180kVA

Flexible

- The system supports phased deployment and capacity expansion on demand to reduce the initial investment cost of customers;
- Both bypass module and power module support online hot plug, and the MTTR is less than 5 minutes;
- Rack-mounted design compatible with 19-inch cabinets, integrating input and output power distribution;
- 10 inch color touch screen, graphical display and abundant functions are available, with UPS and battery system operation status readily available at your fingertips;
- The ultra-wide battery regulation range helps to accurately match the battery capacity and flexibly utilize the old battery pack on site, saving customer investment;
- The system supports direct battery startup to meet the needs in scenarios without AC utility.

Specifications



Model	DTM33-120(R)	DTM33-150(R)	DTM33-180(R)
Rated Capacity	40kVA	50kVA	60kVA
Power Module Capacity	120kVA/120kW	150kVA/150kW	180kVA/180kW
Power Module Quantity	3		
Input			
Wiring Method	3 Phase+N+PE		
Rated Voltage	380/400/415VAC (line-line)		
Rated Frequency	50/60Hz		
Voltage Range (full load)	304 ~ 478Vac*		
Frequency Range	40-70Hz		
Power Factor	>0.99		
THDi	THDi < 3% @ 100% linear load; THDi < 5% @100% non-linear load		
Bypass			
Rated Voltage	380/400/415VAC (line-line)		
Voltage Range	Factory setting -20% ~ +15%; settable, upper limit: +10%, +15%, +20%, +25%; lower limit: -10%, -15%, -20%, -30%, -40%		
Battery			
Battery Voltage	±180/±192/±204/±216/±228/±240/±252/±264VDC (30-44units settable), defaulted by 32 units (±192VDC)		
Battery Load Sharing	Supported		
Output			
Rated Voltage	380/400/415VAC (line-line)		
Power Factor	1		
Rated Frequency	50/60Hz		
Voltage Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load		
Frequency Accuracy	50/60Hz±0.01%		
Frequency Tracking Range	Settable, ±0.5Hz~±5Hz; factory setting ±3Hz		
THDu	THDu≤2% (100% linear load), THDu≤4% (nonlinear load)		
Three-phase Phase Accuracy	120°±1°		
Crest Factor	3:1		
Overload Capacity	≤105%, long run; ≤110%, switch to bypass in 60 mins; 110%~125%, switch to bypass in 10 mins; 125%~150%, switch to bypass in 1 min; > 150%, switch to bypass		
System			
System Efficiency	96%		
Display	Touch screen+LED		
Wiring	Back in		
Standard	IEC62040-1-1, IEC62040-2, IEC62040-3		
Language	Chinese, English, Russian (optional), etc.		
Protection Class	IP20		
Communication Interface	RS232/RS485/SNMP card (optional)/dry contact (optional)		
Working Condition	Temperature: 0-40°C; humidity: 0-95% (no condensation)		
Noise	<60dBA @ 1 meter		
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased		
Size			
System W×D×H(mm)	482.6×850×711 (16U)		
Module W×D×H(mm)	440×720×130 (3U)		
Weight			
System (kg)	66		
Module (kg)	32.5 (40kVA) /33.5 (50kVA) /35 (60kVA)		

*Derating is required when input voltage exceeds the specified range.

** "R" in the above model numbers is used only to distinguish between models and installation methods, which will not be displayed in reports or factory labels.

*Specifications are subject to change without prior notice.

