



**EVADA**

## DaTong Series Modular UPS

# COMPANY PROFILE

20+

Engaged in Drafting 20+ Industry Standards

TOP5

Ranked TOP 5 in China's UPS market



National High and New Technology Enterprise



SRDI "Little Giant" Enterprise



EVADA (Xiamen) Technology Co., Ltd., including Xiamen EVADA Technology Co., Ltd. and Shenzhen EVADA Technology Co., Ltd., was founded in 1998, integrating research, production, sales and service. For over 2 decades, the company has been focusing on power conversion and smart energy fields, offering comprehensive solutions for UPS, micro-modular data centers, 5G base station power supply, solar inverters, household energy storage, industrial and commercial energy storage, and more.

With deep industry engagement and technological accumulation of over 20 years, EVADA has participated in the drafting of multiple national and industry standards, possesses independent core technologies and has obtained numerous invention patents. EVADA is a national high-tech and SRDI "little giant" enterprise that achieves the TOP 5 brands of China UPS, TOP 10 of domestic market and micro modular data center, with China Well-Known trademark "EVADA".

EVADA has served at prestigious events like the 2008 Summer Olympics, BRICS Xiamen Summit, and the 2022 Winter Olympics, and also been selected for centralized procurement by Sinopec, China Telecom, China Unicom, etc. EVADA serves countries and regions worldwide, dedicated to accelerating the transformation of energy decarbonization and promoting the development of sustainable "green" energy.

# DT Series

## Three-Phase Modular UPS (Rack)

### Capacity

10kVA- 180kVA

### Applications

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

### Features

#### 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 it from getting out of control;
- The internal PCB board of the power module adopts an inverted design, with sensitive control circuits and power conversion heating components layered vertically, providing effective heat insulation, dust prevention, and strong environmental adaptability;
- 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.

#### 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.
- #### 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;
  - 5 inch color touch screen, graphical display and abundant functions are available, with UPS and battery system operation status readily available at your fingertips;
  - The system supports direct battery startup to meet the needs in scenarios without AC utility;
  - 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;
  - Optional 50A/2U high-capacity charging module, compatible with power module slots, suitable for fast charging application.

Model	DTM33-20(R)	DTM33-30(R)	DTM33-40(R)	DTM33-50(R)
Rated Capacity	10kVA	15kVA	20kVA	25kVA
Power Module Capacity	20kVA/20kW	30kVA/30kW	40kVA/40kW	50kVA/50kW
Power Module Quantity	2			
Input				
Wiring Method	3 Phase+N+PE			
Rated Voltage	380/400/415VAC (line-line)			
Rated Frequency	50/60Hz			
Voltage Range (full load)	304~478VAC* (line-line)			
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 voltage)			
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 (30-44 units settable); defaulted by 32 units (±192VDC)			
Battery Load Sharing	Supported			
Output				
Rated Voltage	380/400/415Vac (line-line)			
Power Factor	1.0			
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)			
Voltage Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load			
THDu	THDu ≤2% (100% linear load); THDu ≤4% (unbalanced load)			
Crest Factor	3:1			
Cold Start	Supported			
System				
System Efficiency	96% @ double conversion mode			
Wiring	Bottom in			
Parallel	Optional			
Alarm	Input abnormality, low battery voltage, overload, and other error			
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.			
Standard	IEC62040-1-1; IEC620400-2; IEC62040-3			
Protection Class	IP20			
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)			
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB			
Working Condition	Temperature: 0~40°C; humidity: 0~95% (no condensation)			
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms			
Altitude	<1000 meters; >1000 meters, derating 1% if every 100 meters increased			
Size				
System W×D×H(mm)	482.6×800×353 (8U)			
Module W×D×H(mm)	440×690×86 (2U)			
Weight				
System (kg)	60			
Module (kg)	20(10kVA)、22(15kVA)、24(20kVA)、25(25kVA)			

\*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.

# Specifications

Model	DTM33-40(R)	DTM33-60(R)	DTM33-80(R)	DTM33-100(R)
Rated Capacity	10kVA	15kVA	20kVA	25kVA
Power Module Capacity	40kVA/40kW	60kVA/60kW	80kVA/80kW	100kVA/100kW
Power Module Quantity	4			
Input				
Wiring Method	3 Phase+N+PE			
Rated Voltage	380/400/415Vac (line-line))			
Rated Frequency	50/60Hz			
Voltage Range (full load)	304~478Vac* (line-line)			
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	1.0			
Rated Frequency	Automatic tracking ; 50/60Hz±0.1% (abnormal bypass)			
Voltage Accuracy	≤±1.0% @ balanced load ; ≤±5.0% @ unbalanced load			
THDu	THDu ≤2% (100% linear load); THDu ≤4% (unbalanced load)			
Crest Factor	3:1			
Cold Start	Supported			
System				
System Efficiency	96% @ double conversion mode			
Wiring	Bottom in			
Parallel	Optional			
Alarm	Input abnormality, low battery voltage, overload, and other error			
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.			
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3			
Protection Class	IP20			
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)			
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB			
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)			
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms			
Altitude	<1000 meters; >1000 meters, derating 1% if every 100 meters increased			
Size				
System W×D×H(mm)	482.6×800×531(12U)			
Module W×D×H(mm)	440×690×86 (2U)			
Weight				
System (kg)	65			
Module (kg)	20(10kVA)、22(15kVA)、24(20kVA)、25(25kVA)			

\*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.

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Model	DTM33-60(R)	DTM33-90(R)	DTM33-120(R)	DTM33-150(R)
Rated Capacity	10kVA	15kVA	20kVA	25kVA
Power Module Capacity	60kVA/60kW	90kVA/90kW	120kVA/120kW	150kVA/150kW
Power Module Quantity	6			
Input				
Wiring Method	3 Phase+N+PE			
Rated Voltage	380/400/415Vac (line-line))			
Rated Frequency	50/60Hz			
Voltage Range (full load)	304~478Vac* (line-line)			
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	1.0			
Rated Frequency	Automatic tracking ; 50/60Hz±0.1% (abnormal bypass)			
Voltage Accuracy	≤±1.0% @ balanced load ; ≤±5.0% @ unbalanced load			
THDu	THDu ≤2% (100% linear load); THDu ≤4% (unbalanced load)			
Crest Factor	3:1			
Cold Start	Supported			
System				
System Efficiency	96% @ double conversion mode			
Wiring	Back in			
Parallel	Optional			
Alarm	Input abnormality, low battery voltage, overload, and other error			
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.			
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3			
Protection Class	IP20			
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)			
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB			
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)			
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms			
Altitude	<1000 meters; > 1000 meters, derating 1% if every 100 meters increased			
Size				
System W×D×H(mm)	482.6×900×796(18U)			
Module W×D×H(mm)	440×690×86 (2U)			
Weight				
System (kg)	80			
Module (kg)	20(10kVA)、22(15kVA)、24(20kVA)、25(25kVA)			

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

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Model	DTM33-60(R)	DTM33-120(R)	DTM33-180(R)
Rated Capacity	30kVA		
Power Module Capacity	60kVA	120kVA	180kVA
Power Module Quantity	2	4	6
Input			
Wiring Method	3 Phase+N+PE		
Rated Voltage	380/400/415Vac (line-line))		
Rated Frequency	50/60Hz		
Voltage Range (full load)	304~478Vac* (line-line)		
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	0.8		
Rated Frequency	Automatic tracking ; 50/60Hz±0.1% (abnormal bypass)		
Voltage Accuracy	≤±1.0% @ balanced load ; ≤±5.0% @ unbalanced load		
THDu	THDu ≤2% (100% linear load); THDu ≤4% (unbalanced load)		
Crest Factor	3:1		
Cold Start	Supported		
System			
System Efficiency	96% @ double conversion mode		
Wiring	Bottom in	Back in	
Parallel	Optional		
Alarm	Input abnormality, low battery voltage, overload, and other error		
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.		
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3		
Protection Class	IP20		
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)		
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB		
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)		
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms		
Altitude	<1000 meters; >1000 meters, derating 1% if every 100 meters increased		
Size			
System W×D×H(mm)	482.6×800×353(8U)	482.6×800×531(12U)	482.6×900×796(18U)
Module W×D×H(mm)	440×690×86 (2U)		
Weight			
System (kg)	60	65	80
Module (kq)	26.5		

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

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# DT Series

## Three-Phase Modular UPS (Rack)

### Capacity

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40kVA-180kVA

### Applications

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

### Features

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#### ■ 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 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.



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	304 ~ 478Vac* (full load)		
Frequency Range	40-70Hz		
Power Factor	>0.99		
THDi	< 3% @ 100% linear load; < 5% @100% non-linear load		
Bypass			
Rated Voltage	380/400/415VAC (line voltage)		
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	≤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	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 WxDxH(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.

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# DT Series

## Three-Phase Modular UPS (Tower)

### Capacity

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10kVA-300kVA

### Applications

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

### Features

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#### ► Reliable

- 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 it from getting out of control;
- The communication signal cables are designed with independent routing and metal cover protection to prevent system malfunctions due to misoperation and other interference;
- The internal PCB board of the power module adopts an inverted design, with sensitive control circuits and power conversion heating components layered vertically, providing effective heat insulation, dust prevention, and strong environmental adaptability;
- EPO button designed with protective cover for emergency shutdown to prevent misoperation, featuring a dual safety upgrade;
- 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.

#### ► Efficient

- The high efficiency of the entire unit greatly reduces energy consumption and substantially cuts down on the operating expenses for customers;
- Intelligent self-aging function saves energy (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.

#### ► 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;
- 7 inch screen and LED display the overall operating condition and working status;
- The system supports fully equipped input, output, bypass, and maintenance bypass switches;
- 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;
- Optional 50A/2U high-capacity charging module, compatible with power module slots, suitable for fast charging application.

# Specifications

Model	DTM33-40	DTM33-60	DTM33-80	DTM33-100
Rated Capacity	10kVA	15kVA	20kVA	25kVA
Power Module Capacity	40kVA/40kW	60kVA/60kW	80kVA/80kW	100kVA/100kW
Power Module Quantity	4			
Input				
Wiring Method	3 Phase+N+PE			
Rated Voltage	380/400/415Vac (line-line)			
Rated Frequency	50/60Hz			
Voltage Range (full load)	304~478Vac* (line-line)			
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%			
Rated Frequency	50/60Hz			
Frequency Tracking Range	Settable, ±0.5Hz, ±1Hz, ±2Hz, ±3Hz; factory setting ±10%Hz			
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	1.0			
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)			
Frequency Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load			
THDu	THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load)			
Crest Factor	3:1			
Cold Start	Supported			
System				
System Efficiency	96% @ double conversion mode			
Wiring	Bottom in			
Parallel	Optional			
Alarm	Input abnormality, low battery voltage, overload, and other error			
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unvoltage, etc.			
Standard	IEC62040-1-1, IEC62040-2, IEC62040-3			
Protection Class	IP20			
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)			
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB			
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)			
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms			
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased			
Size				
System W×D×H(mm)	600×850×1200			
Module W×D×H(mm)	440×690×86 (2U)			
Weight				
System (kg)	145			
Module (kg)	20 (10KVA) 、 22 (15KVA) 、 24 (20KVA) 、 25 (25KVA)			

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

\*Specifications are subject to change without prior notice.

Model	DTM33-70	DTM33-105	DTM33-140	DTM33-175
Rated Capacity	10kVA	15kVA	20kVA	25kVA
Power Module Capacity	70kVA/70kW	105kVA/105kW	140kVA/140kW	175kVA/175kW
Power Module Quantity	7			
Input				
Wiring Method	3 Phase+N+PE			
Rated Voltage	380/400/415Vac (line-line)			
Rated Frequency	50/60Hz			
Voltage Range (full load)	304~478Vac* (line-line)			
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%			
Rated Frequency	50/60Hz			
Frequency Tracking Range	Settable, ±0.5Hz, ±1Hz, ±2Hz, ±3Hz; factory setting ±10%Hz			
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	1.0			
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)			
Frequency Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load			
THDu	THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load)			
Crest Factor	3:1			
Cold Start	Supported			
System				
System Efficiency	96% @ double conversion mode			
Wiring	Top in and bottom in			
Parallel	Optional			
Alarm	Input abnormality, low battery voltage, overload, and other error			
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.			
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3			
Protection Class	IP20			
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)			
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB			
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)			
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms			
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased			
Size				
System W×D×H(mm)	600×850×1600			
Module W×D×H(mm)	440×690×86 (2U)			
Weight				
System (kg)	210			
Module (kg)	20(10kVA)、22(15kVA)、24(20kVA)、25(25kVA)			

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

\*Specifications are subject to change without prior notice.

# Specifications

Model	DTM33-120	DTM33-180	DTM33-240	DTM33-300
Rated Capacity	10kVA	15kVA	20kVA	25kVA
Power Module Capacity	120kVA/120kW	180kVA/180kW	240kVA/240kW	300kVA/300kW
Power Module Quantity	12			
Input				
Wiring Method	3 Phase+N+PE			
Rated Voltage	380/400/415Vac (line-line)			
Rated Frequency	50/60Hz			
Voltage Range (full load)	304~478Vac* (line-line)			
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%			
Rated Frequency	50/60Hz			
Frequency Tracking Range	Settable, ±0.5Hz, ±1Hz, ±2Hz, ±3Hz; factory setting ±10%Hz			
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	1.0			
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)			
Frequency Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load			
THDu	THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load)			
Crest Factor	3:1			
Cold Start	Supported			
System				
System Efficiency	96% @ double conversion mode			
Wiring	Top in			
Parallel	Optional			
Alarm	Input abnormality, low battery voltage, overload, and other error			
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.			
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3			
Protection Class	IP20			
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)			
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB			
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)			
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms			
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased			
Size				
System W×D×H(mm)	600×1010×2000			
Module W×D×H(mm)	440×690×86 (2U)			
Weight				
System (kg)	239			
Module (kg)	20(10kVA)、22(15kVA)、24(20kVA)、25(25kVA)			

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

\*Specifications are subject to change without prior notice.

Model	DTM33-120	DTM33-210	DTM33-300
Rated Capacity	30kVA		
Power Module Capacity	120kVA	210kVA	300kVA
Power Module Quantity	4	7	12: 10+2 redundant
Input			
Wiring Method	3 Phase+N+PE		
Rated Voltage	380/400/415Vac (line-line)		
Rated Frequency	50/60Hz		
Voltage Range (full load)	304~478Vac* (line-line)		
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%		
Rated Frequency			
Frequency Tracking Range	Settable, ±0.5Hz, ±1Hz, ±2Hz, ±3Hz; factory setting ±10%Hz		
Overload Capacity	≤110%, long run; > 150%, 200ms		
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	0.8		
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)		
Frequency Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load		
THDu	THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load)		
Crest Factor	3:1		
Cold Start	Supported		
System			
System Efficiency	96% @ double conversion mode		
Wiring	Bottom in	Support top and bottom in	Top in
Parallel	Optional		
Alarm	Input abnormality, low battery voltage, overload, and other error		
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unvoltage, etc.		
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3		
Protection Class	IP20		
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)		
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB		
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)		
Overload Capacity	105%~110%: 60min; > 110~125%: 10min; > 125~150%: 1min; > 150%: 200ms		
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased		
Size			
System W×D×H(mm)	600×850×1200	600×850×1600	600×1010×2000
Module W×D×H(mm)	440×690×86 (2U)		
Weight			
System (kg)	145	210	239
Module (kg)	26.5		

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

\*Specifications are subject to change without prior notice.



# DT Series

## Three-Phase Modular UPS (Tower)

### Capacity

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40kVA-600kVA

### Applications

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

### Features

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#### ■ Reliable

- Dual DSP ensures precise and rapid data processing with fast self-diagnostic and problem-dealing capabilities;
- 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 it from getting out of control;
- N+X redundancy can be achieved with dual modes of parallel redundancy and parallel expansion, which allows for application flexibility and compatibility with multiple units connected.
- Safe and reliable digital parallel current-sharing technology ensures a more balanced load distribution, meeting the high power quality requirement of information equipment and securing the operation of user devices;
- 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.

#### ■ Efficient

- The high efficiency of the entire unit greatly reduces energy consumption and substantially cuts down on the operating expenses for customers;



- Intelligent self-aging function saves energy (not necessary to rent fake load), saving operation and installation costs for users;
- Power factor correction technology with high input power factor improves the utilization of electricity, reduces power distribution waste at the UPS front end, and lowers the operating costs of the equipment;
- Intelligent hibernation function improves the efficiency of the system under light load and saves energy.

#### ■ Flexible

- With its compact footprint and optimized structural design, computer room space can be substantially saved, reducing land investment for customers;
- Both bypass module and power module support online hot plug, and the MTTR is less than 5 minutes;
- With intelligent monitoring of computers and UPS through communication, and online monitoring through SNMP, users can remotely monitor the operational status of the equipment in real time;
- 10 inch touch screen with a user-friendly interface that caters to customer operational preferences, facilitating user operation and information retrieval;
- The system supports fully equipped input, output, bypass, and maintenance bypass switches, compatible with top and bottom in wiring.

# Specifications

Model	DTM33-200	DTM33-200	DTM33-180
Rated Capacity	40kVA	50kVA	60kVA
Power Module Capacity	200kVA/200kW	200kVA/200kW	180kVA/180kW
Power Module Quantity	5	5 (4+1 redundancy)	5 (3+2 redundancy)
Input			
Wiring Method	3 phase+N+PE		
Rated Voltage	380/400/415Vac (line-line)		
Rated Frequency	50/60Hz		
Voltage Range (full load)	304Vac~478Vac* (line-line)		
Frequency Range	40Hz~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%		
Frequency Tracking Range	Settable, ±0.5Hz, ±1Hz, ±2Hz (by default), ±3Hz; factory setting ±10%Hz		
Battery			
Battery Voltage	±180/±192/±204/±216/±228/±240/±252/±264VDC (30-44units settable), defaulted by 40 units (±240VDC)		
Battery Load Sharing	Supported		
Output			
Rated Voltage	380/400/415Vac (line-line)		
Power Factor	1.0		
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)		
Frequency Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load		
THDu	THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load)		
Crest Factor	3:1		
Overload Capacity	105%, long run; 110%, 60min; 125%, 10min; 150%, 1min; > 150%, 200ms		
Cold Start	Supported		
System			
System Efficiency	96% @ double conversion mode		
Display	Touch screen+LED		
Wiring	Support top and bottom in		
Parallel	Optional		
Alarm	Input abnormality, low battery voltage, overload, and other error		
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unvoltage, etc.		
Standard	IEC62040-1-1, IEC62040-2, IEC62040-3		
Protection Class	IP20		
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)		
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB		
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)		
Noise	<70dB @ 1 meter		
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased		
Size			
System W×D×H(mm)	600×850×2000		
Module W×D×H(mm)	440×720×130 (3U)		
Weight			
System (kg)	190		
Module (kg)	32.5(40kVA)、33.5 (50kVA)、35(60kVA)		

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

\*Specifications are subject to change without prior notice.

# Specifications

Model	DTM33-280	DTM33-300	DTM33-300
Rated Capacity	40kVA	50kVA	60kVA
Power Module Capacity	280kVA/280kW	300kVA/300kW	300kVA/300kW
Power Module Quantity	7	7: 6+1 redundancy	7: 5+2 redundancy
Input			
Wiring Method	3 phase+N+PE		
Rated Voltage	380/400/415Vac (line-line)		
Rated Frequency	50/60Hz		
Voltage Range (full load)	304Vac~478Vac* (line-line)		
Frequency Range	40Hz~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%		
Frequency Tracking Range	Settable, ±0.5Hz, ±1Hz, ±2Hz (by default), ±3Hz; factory setting ±10%Hz		
Battery			
Battery Voltage	±180/±192/±204/±216/±228/±240/±252/±264VDC (30-44units settable), defaulted by 40 units (±240VDC)		
Battery Load Sharing	Supported		
Output			
Rated Voltage	380/400/415Vac (line-line)		
Power Factor	1.0		
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)		
Frequency Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load		
THDu	THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load)		
Crest Factor	3:1		
Overload Capacity	105%, long run; 110%, 60min; 125%, 10min; 150%, 1min; > 150%, 200ms		
Cold Start	Supported		
System			
System Efficiency	96% @ double conversion mode		
Display	Touch screen+LED		
Wiring	Support top and bottom in		
Parallel	Optional		
Alarm	Input abnormality, low battery voltage, overload, and other error		
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.		
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3		
Protection Class	IP20		
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)		
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB		
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)		
Noise	< 70dB @ 1 meter		
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased		
Size			
System W×D×H(mm)	600×850×2000		
Module W×D×H(mm)	440×720×130 (3U)		
Weight			
System (kg)	299		
Module (kg)	32.5(40kVA)、33.5 (50kVA)、35(60kVA)		

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

\*Specifications are subject to change without prior notice.

Model	DTM33-480	DTM33-500	DTM33-600
Rated Capacity	40kVA	50kVA	60kVA
Power Module Capacity	480kVA/480kW	500kVA/500kW	600kVA/600kW
Power Module Quantity	12	12: 10+2 redundancy	12: 10+2redundancy
Input			
Wiring Method	3 phase+N+PE		
Rated Voltage	380/400/415Vac (line-line)		
Rated Frequency	50/60Hz		
Voltage Range (full load)	304Vac~478Vac* (line-line)		
Frequency Range	40Hz~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%		
Frequency Tracking Range	Settable, ±0.5Hz, ±1Hz, ±2Hz (by default), ±3Hz; factory setting ±10%Hz		
Battery			
Battery Voltage	±180/±192/±204/±216/±228/±240/±252/±264VDC (30-44units settable), defaulted by 40 units (±240VDC)		
Battery Load Sharing	Supported		
Output			
Rated Voltage	380/400/415Vac (line-line)		
Power Factor	1.0		
Rated Frequency	Automatic tracking; 50/60Hz±0.1% (abnormal bypass)		
Frequency Accuracy	≤±1.0% @ balanced load; ≤±5.0% @ unbalanced load		
THDu	THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load)		
Crest Factor	3:1		
Overload Capacity	105%, long run; 110%, 60min; 125%, 10min; 150%, 1min; > 150%, 200ms		
Cold Start	Supported		
System			
System Efficiency	96% @ double conversion mode		
Display	Touch screen+LED		
Wiring	Support top and bottom in		
Parallel	Optional		
Alarm	Input abnormality, low battery voltage, overload, and other error		
Protection	Output short circuit, output overvoltage/undervoltage, overload, overheat, battery unervoltage, etc.		
Standard	IEC62040-1-1, IEC620400-2, IEC62040-3		
Protection Class	IP20		
Communication	RS232/RS485/SNMP card (optional)/dry contact (optional)		
Optional	Lightning protection components, LBS, parallel components, earthquake-proof components, BCB		
Working Condition	Temperature: 0~40℃; humidity: 0~95% (no condensation)		
Noise	< 70dB @ 1 meter		
Altitude	<1000 meters, no derating, > 1000 meters, derating 1% if every 100 meters increased		
Size			
System W×D×H(mm)	1200×850×2000		
Module W×D×H(mm)	440×720×130 (3U)		
Weight			
System (kg)	398		
Module (kg)	32.5(40kVA)、33.5 (50kVA)、35(60kVA)		

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

\*Specifications are subject to change without prior notice.



SNMP card

SNMP card supports network management system, remotely monitoring and managing UPS.



Dry Contact

Dry contact card provides switch signal output to the remote end, monitoring various UPS conditions, including UPS error, UPS alarms, etc.



Parallel communication cable

Used for parallel connection system.



LBS communication cable

Load for bus synchronization control when the outputs of 2 UPS systems should be synchronous.



BCB

Disconnecting the load from the battery when battery voltage drops below a specified safe level.



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Wechat Contact

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