

DaTong Series Modular UPS



COMPANY PROFILE



Engaged in Drafting 20+ Industry Standards



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, offreing 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 SeriesThree-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 relize the intelligent management and linkage of the UPS to the battery to prevent the 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
ower Module Quantity		2		
Input				
Wiring Method		3 Pha	se+N+PE	
Rated Voltage		380/400/41	5VAC (line-line)	
Rated Frequency		50/	60Hz	
Voltage Range (full load)		304~478\	/AC* (line-line)	
Frequency Range		40~	70Hz	
Power Factor		>(0.99	
THDi		THDi < 3% @ 100% lin	ear load; THDi < 5% @ 100	% non-linear load
Bypass				
Rated Voltage		380/400/415	Vac (line voltage)	
Voltage Range	Factory setting -20% ~ +15%	6; settable, upper limit: +10%,		nit: -10%, -15%, -20%, -30%
Battery				
Battery Voltage	±180/±192/±204/±216/±	228/±240/±252/±264VDC (3	30-44 units settable); default	ted by 32 units (±192VD0
Battery Load Sharing		Si	upported	
Output				
Rated Voltage		380/400/415	Vac (line-line)	
Power Factor		1	1.0	
Rated Frequency		Automatic tracking; 50/60H	lz±0.1% (abnormal bypass)	
Voltage Accuracy		≤±1.0% @ balanced	load; ≤±5.0% @ unbalance	d load
THDu		THDu ≤2% (100% linear	load); THDu ≤4% (unbalanc	ed load)
Crest Factor		3	3:1	
Cold Start		Supp	ported	
System				
System Efficiency		96% @ doub	le conversion mode	
Wiring		Во	ttom in	
Parallel		0	ptional	
Alarm	Input	abnormality, low battery vo	oltage, overload, and other	error
Protection	Output short circuit, ou	itput overvoltage/undervolt	age, overload, overheat, ba	ttery unvervoltage, etc.
Standard		IEC62040-1-1; IEC62	0400-2; IEC62040-3	
Protection Class		IF	220	
Communication		RS232/RS485/SNMP c	ard (optional)/dry contact (c	ptional)
Optional	Lightning protection	on components, LBS, parallel	components, earthquake-pro	of components, BCB
Working Condition		Temperature: 0~40°C;	humidity: 0~95% (no cond	ensation)
Overload Capacity	105%~110%: 60min; >110~125%: 10min; >125~150%: 1min; >150%: 200ms			
Altitude	<10	000 meters; >1000 meters, de	erating 1% if every 100 meter	rs increased
Size				
System W×D×H(mm)		482.6×800×	353 (8U)	
Module W×D×H(mm)		440×69	0×86 (2U)	
Weight				
System (kg)		6	0	
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.

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 Pha	se+N+PE		
Rated Voltage		380/400/41	5Vac (line-line))		
Rated Frequency		50/	60Hz		
Voltage Range (full load)		304~478V	'ac* (line-line)		
Frequency Range		40~	70Hz		
Power Factor		>().99		
THDi	THDi <	3% @ 100% linear load; T	HDi < 5% @100% non-linea	r load	
Bypass					
Rated Voltage		380/400/41	5Vac (line-line)		
Voltage Range	Factory setting -20% ~ +15%;	settable, upper limit: +10%, +	15%, +20%, +25%; lower limit:	-10%, -15%, -20%, -30%, -409	
Battery					
Battery Voltage	±180/±192/±204/±216/±	228/±240/±252/±264VDC (3	30-44units settable), default	ed by 32 units (±192VDC)	
Battery Load Sharing		Sı	upported		
Output					
Rated Voltage		380/400/415	Vac (line-line)		
Power Factor		1	.0		
Rated Frequency	A	Automatic tracking; 50/60H	z±0.1% (abnormal bypass)		
Voltage Accuracy		≤±1.0% @ balanced load;	≤±5.0% @ unbalanced load		
THDu	TH	Du ≤2% (100% linear load);	THDu ≤4% (unbalanced loa	nd)	
Crest Factor		3):1		
Cold Start		Supp	orted		
System					
System Efficiency		96% @ double co	nversion mode		
Wiring		Во	ttom in		
Parallel		0	ptional		
Alarm	Input	abnormality, low battery vo	oltage, overload, and other	error	
Protection	Output short circuit, ou	tput overvoltage/undervolt	age, overload, overheat, ba	ttery unvervoltage, etc.	
Standard		IEC62040-1-1, IEC62	0400-2, IEC62040-3		
Protection Class		IF	220		
Communication	R	S232/RS485/SNMP card (opt	tional)/dry contact (optiona	1)	
Optional	Lightning protectio	n components, LBS, parallel	components, earthquake-pro	of components, BCB	
Working Condition	Tei	mperature: 0~40°C; humidi	ty: 0~95% (no condensatio	n)	
Overload Capacity	105%~110%: 60min; >110~125%: 10min; >125~150%: 1min; >150%: 200ms				
Altitude	<10	00 meters; >1000 meters, de	erating 1% if every 100 mete	rs increased	
Size					
System W×D×H(mm)		482.6×800	×531(12U)		
Module W×D×H(mm)					
Weight					
System (kg)		6	5		
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)	DTM33-90(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	e+N+PE	
Rated Voltage		380/400/41	5Vac (line-line))	
Rated Frequency		50/	60Hz	
Voltage Range (full load)		304~478\	/ac* (line-line)	
Frequency Range		40~	70Hz	
Power Factor		>	0.99	
THDi	THDi <	3% @ 100% linear load; T	HDi < 5% @100% non-linea	r load
Bypass				
Rated Voltage		380/400/41	5Vac (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), defaulte	ed by 32 units (±192VDC)
Battery Load Sharing		S	upported	
Output				
Rated Voltage		380/400/415	Vac (line-line)	
Power Factor			1.0	
Rated Frequency		Automatic tracking; 50/60F	Hz±0.1% (abnormal bypass)	
Voltage Accuracy		≤±1.0% @ balanced load;	≤±5.0% @ unbalanced load	
THDu	TH	Du ≤2% (100% linear load);	THDu ≤4% (unbalanced loa	d)
Crest Factor		:	3:1	
Cold Start		Supp	ported	
System				
System Efficiency		96% @ double co	nversion mode	
Wiring		Ва	ck in	
Parallel		C	ptional	
Alarm	Input	abnormality, low battery v	oltage, overload, and other	error
Protection	Output short circuit, ou	tput overvoltage/undervolt	tage, overload, overheat, ba	ttery unvervoltage, etc.
Standard		IEC62040-1-1, IEC62	20400-2, IEC62040-3	
Protection Class		ll l	P20	
Communication	R	S232/RS485/SNMP card (op	tional)/dry contact (optional)
Optional	Lightning protection	n components, LBS, parallel	components, earthquake-pro-	of components, BCB
Working Condition	Te	mperature: 0~40°C; humid	ity: 0~95% (no condensatio	n)
Overload Capacity	105%~110%: 60min; >110~125%: 10min; >125~150%: 1min; >150%: 200ms			
Altitude	<10	00 meters; >1000 meters, de	erating 1% if every 100 meter	rs increased
Size				
System W×D×H(mm)		482.6×900	×796(18U)	
Module W×D×H(mm)		440×69	0×86 (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	T⊦	HDi < 3% @ 100% linear load; THDi < 59	% @100% non-linear load			
Bypass						
Rated Voltage		380/400/415Vac (line-line)				
Voltage Range	Factory setting -20% ~ +15%; settable	e, upper limit: +10%, +15%, +20%, +25%; lo	ower limit: -10%, -15%, -20%, -30%, -409			
Battery						
Battery Voltage	±180/±192/±204/±216/±228/±2	240/±252/±264VDC (30-44units settable	e), defaulted by 32 units (±192VDC)			
Battery Load Sharing		Supported				
Output						
Rated Voltage	380/400/415Vac (line-line)					
Power Factor		0.8				
Rated Frequency	Automa	atic tracking; 50/60Hz±0.1% (abnorma	bypass)			
Voltage Accuracy	≤±1.09	% @ balanced load; ≤±5.0% @ unbalar	nced load			
THDu	THDu ≤29	% (100% linear load); THDu ≤4% (unba	lanced load)			
Crest Factor		3:1				
Cold Start		Supported				
System						
System Efficiency		96% @ double conversion mode				
Wiring	В	ottom in	Back in			
Parallel		Optional				
Alarm	Input abnor	mality, low battery voltage, overload, a	nd other error			
Protection	Output short circuit, output ov	vervoltage/undervoltage, overload, ove	erheat, battery unvervoltage, etc.			
Standard		IEC62040-1-1, IEC620400-2, IEC62040-	3			
Protection Class		IP20				
Communication	RS232/R	S485/SNMP card (optional)/dry contact	(optional)			
Optional	Lightning protection com	ponents, LBS, parallel components, earth	quake-proof components, BCB			
Working Condition	Temperat	cure: 0~40°C; humidity: 0~95% (no co	ndensation)			
Overload Capacity	105%~110%: 60min; >110~125%: 10min; >125~150%: 1min; >150%: 200ms					
Altitude	<1000 met	ers; >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 (kg)		26.5				



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

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DT SeriesThree-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 relize 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.





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%	6 non-linear load	
Bypass				
Rated Voltage		380/400/415VAC (line voltage)		
Voltage Range	Factory setting -20% ~ +15%; settable, u		lower limit: -10%, -15%, -20%, -30%, -40%	
Battery	manage and the state of the sta			
Battery Voltage	+180/+192/+204/+216/+228/+240	1/+252/+264VDC (30-44units settabl	le), defaulted by 32 units (±192VDC)	
Battery Load Sharing	1100/ 1132/ 1204/ 1210/ 1220/ 1240	Supported	ic), deladited by 32 diffes (±1324be)	
Output		зарропеа		
Rated Voltage		380/400/415VAC (line-line)		
Power Factor		1		
Rated Frequency		50/60Hz		
Voltage Accuracy	211	, , , , , , , , , , , , , , , , , , ,	anlanced load	
	SII.	.0% @ balanced load; ≤±5.0% @ unb	Dalanced IOad	
Frequency Accuracy		50/60Hz±0.01%	na 1211 a	
Frequency Tracking Range THDu		Settable, ±0.5Hz~±5Hz; factory setting		
	Indus27	% (100% linear load), THDu≤4% (non	ilinear ioad)	
Three-phase Phase Accuracy		120°±1°		
Crest Factor		3:1		
Overload	≤105%, long run; ≤110%, switch to b 125%~150%, sw	ypass in 60 mins; 110%~125%, switc vitch to bypass in 1 min; > 150%, swi		
System				
System Efficiency		96%		
Display		Touch screen+LED		
Wiring		Back in		
Standard	I	EC62040-1-1, IEC62040-2, IEC62040-	-3	
Language		Chinese, English, Russian (optional), etc	<u>.</u>	
Protection Class		IP20		
Communication	RS232/RS4	85/SNMP card (optional)/dry contac	t (optional)	
Working Condition	Temp	erature: 0-40°C; humidity: 0-95% (r	no condensation)	
Noise		<60dBA @ 1 meter		
Altitude	<1000 meters, no derat	ing, > 1000 meters, derating 1% if ev	ery 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.

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DT SeriesThree-Phase Modular UPS (Tower)

Capacity

10kVA-300kVA

Applications

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

Features

Reliable

- UPS can interact with lithium battery BMS system in real time to relize the intelligent management and linkage of the UPS to the battery to prevent the 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.

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		380/400/415	Vac (line-line)			
Rated Frequency		50/	60Hz			
Voltage Range (full load)		304~478Va	c* (line-line)			
Frequency Range		40~	70Hz			
Power Factor		>().99			
THDi	THDi <	3% @ 100% linear load; T	HDi < 5% @100% non-linea	r load		
Bypass						
Rated Voltage		380/400/415	5Vac (line-line)			
Voltage Range	Factory setting -20% ~ +15%	s; settable, upper limit: +10%, +	15%, +20%, +25%; lower limit:	-10%, -15%, -20%, -30%, -409		
Rated Frequency		50/6	50Hz			
Frequency Tracking Range		Settable, ±0.5Hz, ±1Hz, ±	2Hz, ±3Hz; factory setting ±1	0%Hz		
Battery			<u> </u>			
Battery Voltage	±180/±192/±204/±216/±	±228/±240/±252/±264VDC (3	30-44units settable), default	ed by 32 units (±192VDC)		
Battery Load Sharing	, , , ,	Supp		, ,		
Output						
Rated Voltage		380/400/41	5Vac (line-line)			
Power Factor			.0			
Rated Frequency		Automatic tracking; 50/60H				
Frequency Accuracy		≤±1.0% @ balanced load; ≤				
THDu	1	ΓHDu ≤2% (100% linear load))		
Crest Factor			::1	,		
Cold Start		Supp	orted			
System						
System Efficiency		96% @ double c	onversion mode			
Wiring		Botto	om in			
Parallel			ional			
Alarm	Input	abnormality, low battery vo		error		
Protection		itput overvoltage/undervolt				
Standard	,	IEC62040-1-1, IEC62				
Protection Class		IP20				
Communication	R	RS232/RS485/SNMP card (opt				
Optional		on components, LBS, parallel				
Working Condition		mperature: 0~40°C; humidi		•		
Overload Capacity		: 60min; > 110~125%: 10n	•			
Altitude		s, no derating, > 1000 meters,				
Size		J				
System W×D×H(mm)		600×850	0×1200			
Module W×D×H(mm)		440×690×				
			X = 7			
Weight						
Weight System (kg)		1	<u>45</u>			

^{*}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 Pha	se+N+PE	
Rated Voltage		380/400/415	Vac (line-line)	
Rated Frequency		50/	60Hz	
Voltage Range (full load)		304~478Va	c* (line-line)	
Frequency Range		40~	70Hz	
Power Factor		>().99	
THDi	THDi <	3% @ 100%linear load; T	HDi < 5% @100% non-linea	r load
Bypass				
Rated Voltage		380/400/415	5Vac (line-line)	
Voltage Range	Factory setting -20% ~ +15%	; settable, upper limit: +10%, +	15%, +20%, +25%; lower limit:	-10%, -15%, -20%, -30%, -40%
Rated Frequency		50/6	50Hz	
Frequency Tracking Range		Settable, ±0.5Hz, ±1Hz, ±	2Hz, ±3Hz; factory setting ±1	0%Hz
Battery				
Battery Voltage	±180/±192/±204/±216/±	:228/±240/±252/±264VDC (3	30-44units settable), defaulte	ed by 32 units (±192VDC)
Battery Load Sharing		Supp	orted	
Output				
Rated Voltage		380/400/41	5Vac (line-line)	
Power Factor			.0	
Rated Frequency		Automatic tracking; 50/60H	z±0.1% (abnormal bypass)	
Frequency Accuracy		≤±1.0% @ balanced load; ≤	±5.0% @ unbalanced load	
THDu	1	HDu ≤2% (100% linear load)); THDu ≤4% (nonlinear load))
Crest Factor		3	3:1	
Cold Start		Sup	ported	
System				
System Efficiency		96% @ double	e conversion mode	
Wiring		Top in and	bottom in	
Parallel		Opt	ional	
Alarm	Input	abnormality, low battery vo	oltage, overload, and other	error
Protection	Output short circuit, ou	tput overvoltage/undervolt	age, overload, overheat, ba	ttery unvervoltage, etc.
Standard		IEC62040-1-1, IEC62	0400-2, IEC62040-3	
Protection Class		IP20)	
Communication	R	S232/RS485/SNMP card (opt	tional)/dry contact (optional)
Optional	Lightning protection	on components, LBS, parallel	components, earthquake-pro-	of components, BCB
Working Condition	Те	mperature: 0~40°C; humidi	ty: 0~95% (no condensatio	n)
Overload Capacity	105%~110%: 60min; >110~125%: 10min; >125~150%: 1min; >150%: 200ms			
Altitude	<1000 meters	s, no derating, > 1000 meters,	derating 1% if every 100 met	ers increased
Size				
System W×D×H(mm)		600×850	0×1600	
Module W×D×H(mm)		440×690×	86 (2U)	
Weight				
System (kg)		2	10	
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	DTM33-180	DTM33-240	DTM33-300		
Rated Capacity	10kVA	15kVA	20kVA	25kVA		
Power Module Capacity	120kVA/120kW	180kVA/180kW	240kVA/240kW	300kVA/300kW		
Power Module Quantity		1	2			
Input	'					
Wiring Method		3 Phase+N+PE				
Rated Voltage		380/400/415	Vac (line-line)			
Rated Frequency		50/	60Hz			
Voltage Range (full load)		304~478Va	c* (line-line)			
Frequency Range		40~	70Hz			
Power Factor		>().99			
THDi	THDi <	3% @ 100%linear load; T	HDi < 5% @100% non-linea	r load		
Bypass						
Rated Voltage		380/400/415	5Vac (line-line)			
Voltage Range	Factory setting -20% ~ +15%	; settable, upper limit: +10%, +	15%, +20%, +25%; lower limit:	-10%, -15%, -20%, -30%, -409		
Rated Frequency		50/6	60Hz			
Frequency Tracking Range		Settable, ±0.5Hz, ±1Hz, ±	2Hz, ±3Hz; factory setting ±1	0%Hz		
Battery			, ,			
Battery Voltage	±180/±192/±204/±216/±	:228/±240/±252/±264VDC (3	30-44units settable), defaulte	ed by 32 units (±192VDC)		
Battery Load Sharing		Supp	orted	•		
Output						
Rated Voltage		380/400/41	5Vac (line-line)			
Power Factor			.0			
Rated Frequency		Automatic tracking; 50/60H	z±0.1% (abnormal bypass)			
Frequency Accuracy		≤±1.0% @ balanced load; ≤	≤±5.0% @ unbalanced load			
THDu	1	HDu ≤2% (100% linear load)); THDu ≤4% (nonlinear load))		
Crest Factor		3	3:1			
Cold Start	'	Sup	ported			
System						
System Efficiency		96% @ dou	ble conversion mode			
Wiring		То	p in			
Parallel		Opt	ional			
Alarm	Input	abnormality, low battery vo	oltage, overload, and other	error		
Protection	Output short circuit, ou	tput overvoltage/undervolt	age, overload, overheat, ba	ttery unvervoltage, etc.		
Standard		IEC62040-1-1, IEC62	0400-2, IEC62040-3			
Protection Class		IP20	0			
Communication	R	S232/RS485/SNMP card (opt	tional)/dry contact (optional)		
Optional	Lightning protection	on components, LBS, parallel	components, earthquake-pro	of components, BCB		
Working Condition	Te	mperature: 0~40°C; humidi	ty: 0~95% (no condensatio	n)		
Overload Capacity	105%~110%	105%~110%: 60min; >110~125%: 10min; >125~150%: 1min; >150%: 200ms				
Altitude	<1000 meters	s, no derating, > 1000 meters,	derating 1% if every 100 met	ers increased		
Size		COO 404	0.42000			
System W×D×H(mm)		600×101				
Module W×D×H(mm)		440×690×	ου (Δυ)			
Weight		-	20			
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				
ated 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% @ 1	00% linear load; THDi < 5% @100% r	non-linear load				
Bypass							
Rated Voltage		380/400/415Vac (line-line)					
Voltage Range	Factory setting -20% ~ +15%; settable.	upper limit: +10%, +15%, +20%, +25%; lo	wer limit: -10%15%20%30%40%				
Rated Frequency		50/60Hz					
Frequency Tracking Range	Settah	le, ±0.5Hz, ±1Hz, ±2Hz, ±3Hz; factory s	etting +10%Hz				
Overload Capacity	Settab	≤110%, long run; > 150%, 200ms	etting ±1070112				
Battery		211070, long run, > 13070, 200113					
	+190/+102/+204/+216/+220/+24	0/+252/+264VDC (20 44units cottable)	defaulted by 22 units (±102VDC)				
Battery Voltage	±100/±192/±204/±210/±220/±24	±180/±192/±204/±216/±228/±240/±252/±264VDC (30-44units settable), defaulted by 32 units (±192VDC					
Battery Load Sharing		Supported					
Output Noltons		200/400/415\/aa/lina lina					
Rated Voltage Power Factor		380/400/415Vac (line-line)					
	A	0.8	h a a a)				
Rated Frequency		c tracking; 50/60Hz±0.1% (abnormal	**				
Frequency Accuracy		@ balanced load; ≤±5.0% @ unbalance					
THDu Crest Factor	Indu S2	% (100% linear load); THDu ≤4% (nonlin	lear load)				
Cold Start		3:1					
		Supported					
System		OCOV O develo commencia a ma	1.				
System Efficiency	D	96% @ double conversion mod					
Wiring	Bottom in	Support top and bottom in	Top in				
Parallel		Optional					
Alarm		ality, low battery voltage, overload, ar					
Protection	· · · · · · · · · · · · · · · · · · ·	rvoltage/undervoltage, overload, over					
Standard	I	EC62040-1-1, IEC620400-2, IEC62040-3	3				
Protection Class	20000120	IP20					
Communication		185/SNMP card (optional)/dry contact					
Optional	3 31	onents, LBS, parallel components, earthq					
Working Condition		re: 0~40°C; humidity: 0~95% (no con	<u> </u>				
Overload Capacity		> 110~125%: 10min; > 125~150%:	· · ·				
Altitude	<1000 meters, no dera	ting, > 1000 meters, derating 1% if every	y 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 SeriesThree-Phase Modular UPS (Tower)

Capacity

40kVA-600kVA

Applications

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

Features

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 relize the intelligent management and linkage of the UPS to the battery to prevent the 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 custormer operational preferences, facilitaing user operation and information retrieval;
- The system supports fully equipped input, output, bypass, and maintenance bypass switches, compatible with top and bottom in wiring.



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% @ 1	00% linear load; THDi < 5% @100%	non-linear load				
Bypass							
Rated Voltage		380/400/415Vac (line-line)					
Voltage Range	Factory setting -20% ~ +15% settable u	upper limit: +10%, +15%, +20%, +25%; lo	wer limit: -10% -15% -20% -30% -40%				
Frequency Tracking Range	, ,	, ±1Hz, ±2Hz (by default), ±3Hz; factor					
Battery	Settable, ±0.3112	, ±1112, ±2112 (by delidalt), ±3112, idetol	y 30tting ± 1070112				
Battery Voltage	+180/+192/+204/+216/+228/+240	/±252/±264VDC (30-44units settable)	defaulted by 40 units (+240VDC)				
Battery Load Sharing	±100/±132/±204/±210/±220/±240	Supported	, defaulted by 40 diffes (±240VDC)				
Output		Supported					
Rated Voltage		380/400/415Vac (line-line)					
Power Factor		1.0					
Rated Frequency	Automati	c tracking; 50/60Hz±0.1% (abnormal	hypacs				
. ,		@ balanced load; ≤±5.0% @ unbalan					
Frequency Accuracy THDu		6 (100% linear load); THDu ≤4% (nonli					
Crest Factor	INDU 527	3:1	near load)				
Overload Capacity	105% long run: 1:	3.1 10%, 60min; 125%, 10min; 150%, 1min	> 1509/ 200ms				
Cold Start	103%, long run, 1	Supported	, > 130%, 20011IS				
		Supported					
System		060/ 0 double commission made					
System Efficiency	96% @ double conversion mode						
Display		Touch screen+LED					
Wiring		Support top and bottom in					
Parallel		Optional					
Alarm	'	ality, low battery voltage, overload, a					
Protection		rvoltage/undervoltage, overload, ove					
Standard	l l	EC62040-1-1, IEC620400-2, IEC62040-	3				
Protection Class	2000/120	IP20					
Communication		85/SNMP card (optional)/dry contact					
Optional		onents, LBS, parallel components, eartho					
Working Condition	Temperatui	re: 0~40°C; humidity: 0~95% (no cor	ndensation)				
Noise	<70dB @ 1 meter						
Altitude	<1000 meters, no dera	ting, > 1000 meters, derating 1% if ever	y IUU 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)	3	2.5(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	DTM33-280	DTM33-300	DTM33-300				
Rated Capacity	40 kVA	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% @ 1	00% linear load; THDi < 5% @100%	non-linear load				
Bypass							
Rated Voltage		380/400/415Vac (line-line)					
Voltage Range	Factory setting -20% ~ +15%; settable.		ower limit: -10%, -15%, -20%, -30%, -40%				
Frequency Tracking Range		z, ±1Hz, ±2Hz (by default), ±3Hz; facto					
Battery		, , (a,	.,				
Battery Voltage	+180/+192/+204/+216/+228/+240)/±252/±264VDC (30-44units settable	e), defaulted by 40 units (+240VDC)				
Battery Load Sharing	_ : : : : : : : : : : : : : : : : : : :	Supported	,, deluation by 10 a.m.b (10 t_b c)				
Output		Supported					
Rated Voltage		380/400/415Vac (line-line)					
Power Factor		1.0					
Rated Frequency	Automat	ic tracking; 50/60Hz±0.1% (abnorma	l hynass)				
Frequency Accuracy		@ balanced load; ≤±5.0% @ unbala	**				
THDu		·					
Crest Factor		THDu ≤2% (100% linear load); THDu ≤4% (nonlinear load) 3:1					
Overload Capacity	105% long run: 1	105%, long run; 110%, 60min; 125%, 10min; 150%, 1min; > 150%, 200ms					
Cold Start	10370, 1011g 1411, 1	Supported	., , , , , , , , , , , , , , , , , , ,				
System		34p5.t34					
System Efficiency		96% @ double conversion mod	0				
Display		Touch screen+LED					
Wiring		Support top and bottom in					
Parallel		Optional					
Alarm	Input abnorm	ality, low battery voltage, overload,	and other error				
Protection	· · · · · · · · · · · · · · · · · · ·	rvoltage/undervoltage, overload, ov					
Standard		EC62040-1-1, IEC620400-2, IEC62040					
Protection Class	'	IP20	. 3				
Communication	DC222/DC	485/SNMP card (optional)/dry contac	t (ontional)				
Optional		onents, LBS, parallel components, earth					
Working Condition	3 31 1	re: $0\sim40^{\circ}$ C; humidity: $0\sim95\%$ (no co					
Noise	Temperatu	<70dB @ 1 meter	, indefinition in				
Altitude	<1000 meters no dora	ting, > 1000 meters, derating 1% if eve	ery 100 meters increased				
Size	Todo meters, no dera	ang, > 1000 meters, defaulty 170 ff eve	Too meters increased				
		600 × 8 ± 0 × 2000					
System W×D×H(mm)		600×850×2000					
Module W×D×H(mm)		440×720×130 (3U)					
Weight System (kg)		200					
System (kg)		299	A.)				
Module (kg)	-	32.5(40kVA)、33.5(50kVA)、35(60kV	A)				

^{*}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		
lated Capacity	40 kVA	50kVA	60kVA		
ower Module Capacity	480kVA/480kW	500kVA/500kW	600kVA/600kW		
ower 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%; lo	wer limit: -10%, -15%, -20%, -30%, -40		
Frequency Tracking Range		Hz, ± 1 Hz, ± 2 Hz (by default), ± 3 Hz; factor			
Battery		,, (a, acrossin,, recor-	,		
Battery Voltage	+180/+192/+204/+216/+228/+24	10/±252/±264VDC (30-44units settable)	defaulted by 40 units (+240VDC)		
Battery Load Sharing	1100/1132/1204/1210/1220/124	Supported	, delauted by 40 units (±240 vbe)		
Output		Supported			
Rated Voltage		200/400/41EVas (line line)			
Power Factor		380/400/415Vac (line-line) 1.0			
Rated Frequency	Automa	tic tracking; 50/60Hz±0.1% (abnormal	hynass)		
Frequency Accuracy		% @ balanced load; ≤±5.0% @ unbalan			
THDu		2% (100% linear load); THDu ≤4% (nonli			
Crest Factor	11104 32	3:1	incur ioda)		
Overload Capacity	105% long run:		: > 150% 200ms		
Cold Start	10376, 1011g 1411,	Supported	, - 15070, 2001115		
System		Supported			
System Efficiency		96% @ double conversion mode			
Display		Touch screen+LED			
Wiring					
Parallel		Support top and bottom in Optional			
Alarm	Input abnorn	nality, low battery voltage, overload, a	nd other error		
Protection	·	ervoltage/undervoltage, overload, over			
Standard	Output short circuit, output ov	IEC62040-1-1, IEC620400-2, IEC62040-			
Protection Class		IP20	3		
Communication	DC222/D0	5485/SNMP card (optional)/dry contact	(ontional)		
Optional Working Condition		oonents, LBS, parallel components, earth ure: 0~40°C; humidity: 0~95% (no co	· · · · · · · · · · · · · · · · · · ·		
	Temperati	•	idensation)		
Noise	11000	<70dB @ 1 meter	100		
Altitude Size	< 1000 meters, no der	rating, > 1000 meters, derating 1% if ever	y 100 meters increased		
		1200,4850,.2000			
System W×D×H(mm)		1200×850×2000			
Module W×D×H(mm)		440×720×130 (3U)			
Weight System (kg)		200			
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.



ВСВ

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



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