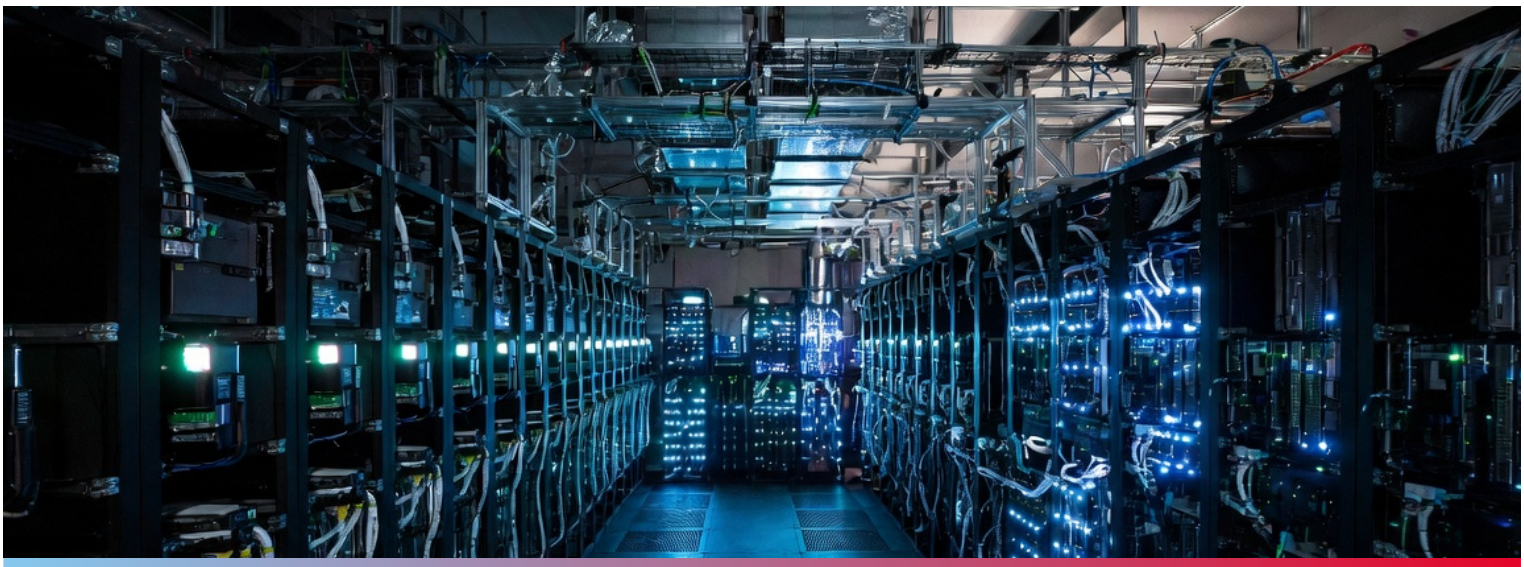
DELTRONICS GENERAL CATALOGUE

Power & Cooling Solutions for Data Center

DELTRONICS



POWER & COOLING

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DELTRONICS MARS SERIES

1:1Phase PF 0.9 (PF 1.0 optional)
POWER RANGE: 1-3 KVA

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Deltronics Mars RT Series 1-3 KVA

The Mars RT Series (1–3kVA) is an online double-conversion UPS designed for IT systems, servers, and critical equipment. Its high power factor, stable output, and rack/tower convertible design make it adaptable to a wide range of environments.

It provides advanced communication capabilities, compatibility with external battery banks, and comprehensive protection against electrical faults, ensuring uninterrupted operation for sensitive systems.

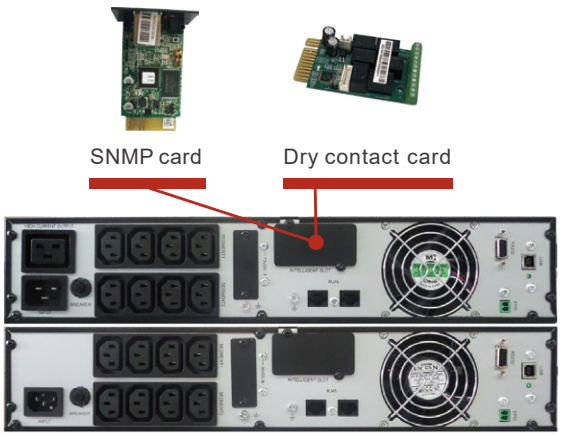
Features

- Rack/Tower convertible design
- Online double conversion with full digital control Wide input voltage range: 110~300Vac
- Input power factor 0.99 with PFC
- Selectableoutput voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Maximum charging current can be expanded to 12A(Long run unit)
- Emergency power off function (EPO)ECOmode operation for energy saving Generator compatible
- Hot-Swappable battery design Cold start
- Intelligent fan speed regulation Load segment settable (Optional)
- Versatile LCD human-computer interface
- Multiple communication interface: RS232 (USB/ EPO/ Dry contact card/ SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- PDU with maintenance bypass switch (Optional)

Multifunctional Bracket

Socket

The LCD panel can be rotated



Technical Specifications

MODEL	MR-1KRT-S2	MR-2KRT-S4	MR-3KRT-S6
Capacity (VA/W)	1000/900	2000/1800	3000/2700
INPUT			
Nominal Voltage (Vac)	208/220/230/240		
Operating Voltage Range (Vac)	110~300 (176~264 @ 100% load)		
Power Factor	≥0.99		
Bypass Frequency Range (Hz)	40~70 (50/60 Auto-Sensing)		
OUTPUT			
Nominal Voltage (Vac)	208/220/230/240		
Voltage Regulation	±1%		
Power Factor	0.9		
Output Frequency (Hz)	Line mode: 46~54 or 56~64; Bat. mode: (50/60±0.1%)		
Crest Factor	3:1		
Harmonic Distortion (THDv)	≤3% Linear load; ≤5% Non linear load		
Transfer Time (ms)	AC mode to Bat.mode: 0; Inverter to Bypass: 4 (Typical)		
Waveform	Pure Sinewave		
EFFICIENCY			
AC Mode	Up to 90%	Up to 91%	Up to 92%
ECO Mode	Up to 95%	Up to 96%	Up to 97%
BATTERY			
Battery Type	VRLA (Lead acid maintenance free battery)		
Battery Voltage (Vdc)	24	48	72
Battery Capacity (Ah)	S: 7/9; H: Depends on the capacity of external batteries		
Battery Quantity (pcs)	2	4	6
Typical Recharge Time (hours)	S: 4 (To 90% of full capacity)		
Charging Current (Max.) (A)	1.4	1.4	1.4
MANAGEMENT			
LED Display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault		
LCD Display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature& Remaining battery backup time		
ENVIRONMENTAL			
Operating Temperature (℃)	0~40		
Storage Temperature (℃)	-25~55		
Humidity Range	20~95%RH @ 0~40℃ (Non condensing)		
Altitude (m)	<1000, derating required between 1000 to 3000		
Noise Level (dB)	<50		
PHYSICAL			
Dimension WxDxH (mm)	440×325×86.5	440×460x86.5	440×600×86.5
Weight (kg)	11.3	19.5	26
STANDARDS			
Safety	IEC/EN 62040-1, IEC/EN 62477-1		
EMC	IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8		

1. When output voltage is 208Vac, it needs to derate to 80% of the unit capacity
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Deltronics Venus RT Series 10-50 KVA

The Venus RT 10–50 kVA UPS is a three-phase, online double-conversion system with a true 1.0 power factor, designed to deliver stable power to critical infrastructures. Its wide input voltage range, generator compatibility, and high operating efficiency ensure continuous performance even under severe mains fluctuations.

It supports both rack and tower installations, integrates intelligent communication, advanced monitoring, and multiple protection features to ensure safe and reliable operation in industrial and corporate environments.

Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 138~485Vac Wide input frequency range 40~70Hz
- Configurable battery quantity 10~50kVA: (30~50pcs supportable VRLA)
- Support Lithium battery (±192Vdc)
- Maximum charging current up to 18A (VRLA) Dual input source
- Colorful 7 inch LCD display
- Versatile LCD human-computer interface Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup 50/60Hz frequency converter mode Cold start
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, RS485(COM For Li-ion), Parallel port, Dry contact port port, Backfeed port, Intelligent slot, SNMP card (optional)

Rear panel

SNMP card

Parallel cable

Technical Specifications

MODEL	HPM3310E-RT	HPM3315E-RT	HPM3320E-RT	HPM3325E-RT	HPM3330E-RT	HPM3340E-RT	HPM3350E-RT
Capacity (VA/W)	10k/10k	15k/15k	20k/20k	25k/25k	30k/30k	40k/40k	50k/50k
INPUT							
Nominal Voltage (Vac)	380/400/415, (3Ph+N+PE)						
Operating Voltage Range (Vac)	138~485						
Power Factor	≥0.99						
Harmonic Distortion (THDi)	≤3% Linear load						
Bypass Voltage Range (Vac)	Max.voltage: 220:+25% (Optional+10%,+15%,+20%) 230:+20% (Optional+10%,+15%) 240:+15% (Optional+10%) Min.voltage:-45% (Optional-10%,-15%,-20%,-30%)						
Bypass Frequency Range (Hz)	±10%						
OUTPUT							
Nominal Voltage (Vac)	380/400/415 (3Ph+N+PE)						
Voltage regulation	±1%						
Output Frequency (Hz)	Line Mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. Mode: (50/60±0.1%)						
Crest Factor	3:1						
Harmonic Distortion (THDv)	≤2% with linear load; ≤5% with non linear load					≤2% with linear load ≤4% with non linear load	
Overload	Load≤110%: last 60min,≤125%: last 10min,≤150%: last 1min						
EFFICIENCY							
AC Mode	Up to 95.5%						
ECO Mode	Up to 98.0%			Up to 98.5%		Up to 99.0%	
BATTERY							
Battery Type	VRLA (Lead acid maintenance free battery)						
Battery Voltage (Vdc)	Optional Voltage: ±180/±192/±204/±216/±228/±240/±252/±264/±276/±288/±300 (30/32/34/36/38/40/42/44/46/48/50pcs optional) 360~600 (30~50pcs, 30pcs default, 36~50pcs no power derating; 32~34pcs output power factor 0.9; 30pcs output power factor 0.8)						
Charging Current (Max.)(A)	18					20	
MANAGEMENT							
Alarm	Overload, utility abnormal, UPS fault, battery low, etc.						
Communication ports	USB, RS232, RS485, Parallel port, Dry contact port, REPO port, Backfeed port, SNMP card (Optional), Battery temperature sensor (Optional)					USB, RS232, RS485, Parallel port, REPO port, LBS port, Dry contact port (Backfeed/Battery breaker driver), SNMP card (Optional), Relay card (Optional), Battery temperature sensor (Optional)	
ENVIRONMENTAL							
Operating Temperature (℃)	0~40						
Storage Temperature (℃)	-25~55 (No battery)						
Humidity Range	0~95% (Non condensing)						
Altitude (m)	<1000, derating required when>1000						
Noise Level (dB)	<55					<56	<58
PHYSICAL							
Dimension WxDxH (mm)	440×670×130 (3U)					440×800×175 (4U)	
Weight (kg)	25	27		28		45	48
STANDARDS							
Safety	IEC/EN 62040-1, IEC/EN 62477-1						
EMC	IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)						
Performance	IEC 62040-3: 2021, EN IEC 62040-3: 2021					/	

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DELTRONICS SATURN SERIES

DHP44 Model 3:3 phase PF 1.0
POWER RANGE: 10-40 KVA

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Deltronics Saturn Series 10-40 KVA

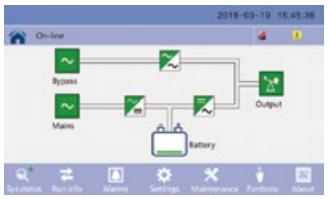
The Saturn DHP44 10–40 kVA Series is a three-phase online double-conversion UPS engineered for applications that demand high performance and continuous stability. It delivers high efficiency, a wide input voltage range, and a true 1.0 power factor to ensure reliable power supply even during significant fluctuations.

It supports both VRLA and lithium battery configurations, offers multiple communication interfaces, and includes advanced protection features, ensuring safe operation in corporate and industrial environments.

Features

- High power density design
- N+X parallel redundancy,support maximum 4 units in parallel
- Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 208~478Vac
- Wide input frequency range 40~70Hz
- Optimization battery group, the quantity of battery
  10~30kVA:
  16/18/20pcs (30~50pcs supportable)
  40kVA: 30~50pcs
- Maximum charging current up to 20A (Settable)
- Dual input source (Optional for standard unit)
- Colorful 2.4 inch TFT LCD display and 7 inch LCD display
- LCD are optional
- Versatile LCD human-computer interface
- Generator compatible
- ECO mode operation for energy saving
- Intelligent fan speed regulation
- Self-testing when UPS startup
- 50/60Hz frequency converter mode
- Cold start
- The output can meet 100% unbalanced load
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, Parallel port, Dry contact, Intelligent slot, SNMP card (Optional), Dry contact card (Optional), Battery temperature sensor (Optional)

LCD



7 inch colourful LCD

Battery cabinet
(Optional)

Optimized battery
configuration
7Ah/9Ah (12V)

High energy efficiency

Wide input voltage range

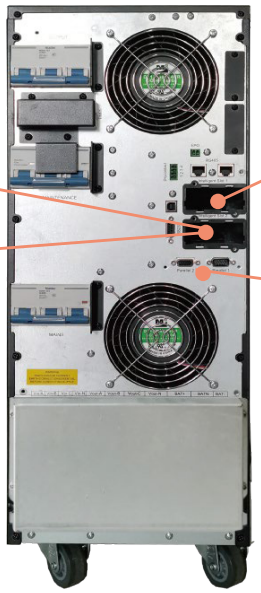
Compatible with VRLA and lithium batteries

Comprehensive protection against overload and electrical faults

High-performance three-phase UPS

Dry contact card

SNMP card



SNMP card

Parallel cable

Technical Specifications

MODEL		DHP44B-10K	DHP44B-15K	DHP44B-20K	DHP44B-30K	DHP44B-40K
Capacity (VA/W)		10k/10k	15k/15k	20k/20k	30k/30k	40k/40k
INPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Operating Voltage Range (Vac)		305~478 (Full load); 208~478 (50% load)				
Power Factor		≥0.99				
Harmonic Distortion (THDi)		≤3% Linear load				
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)				
Bypass Frequency Range (Hz)		50/60±10%				
OUTPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Voltage Regulation		±1%				
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60 (±0.1%)				
Crest Factor		3:1				
Harmonic Distortion (THDv)		≤2% Linear load; ≤5% Non linear load				
Overload	AC mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately turn to bypass				
	Bat.mode	≤110% 10min, ≤125% 1min, ≤150% 5s, >150% immediately shut down				
EFFICIENCY						
AC Mode		Up to 93.5%	Up to 94.5%		Up to 95.2%	
ECO Mode		Up to 98.0%	Up to 98.2%		Up to 98.6%	
BATTERY						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)		Chassis 1: ±120 (20pcs 9Ah)(20pcs 7Ah, 2×20pcs 7/9Ah, 3×20pcs 7/9Ah optional) Chassis 2: ±96Vdc (16pcs 9Ah)	±120 (2×20pcs 9Ah) (2×20pcs 7Ah, 3×20pcs 7/9Ah optional)		±120 (3×20pcs 9Ah)(3×20pcs 7Ah optional)	±180 (2×30pcs 9Ah)(2×30pcs 7Ah optional)
Charging Current (Max.)(A)		1.35 (2.7 Optional)	2.7		4.05	2.7
ENVIRONMENTAL						
Operating Temperature (℃)		0~40				
Storage Temperature (℃)		-25~55 (No battery)				
Humidity Range		0~95% (Non condensing)				
Altitude (m)		<1000, derating required when>1000				
Noise Level (dB)		<55		<58	<61	<64
PHYSICAL						
Dimension WxDxH (mm)		Chassis 1: 250×900×868 Chassis 2: 250×645×715	250×900×868			
Weight (kg)		Chassis 1: 129 (20pcs 9Ah) Chassis 2: 80 (16pcs 9Ah)	186 (2×20pcs 9Ah)	187 (2×20pcs 9Ah)	236 (3×20pcs 9Ah)	239 (2×30pcs 9Ah)
STANDARDS						
Safety		IEC/EN 62040-1, IEC/EN 62477-1				
EMC		IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)				

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Technical Specifications

MODEL		DHP44-10K	DHP44-15K	DHP44-20K	DHP44-30K	DHP44-40K
Capacity (VA/W)		10k/10k	15k/15k	20k/20k	30k/30k	40k/40k
INPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Operating Voltage Range (Vac)		305~478 (Full load); 208~478 (50% load)				
Power Factor		≥0.99				
Harmonic Distortion (THDi)		≤3% Linear load				
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -20%, -30%)				
Bypass Frequency Range (Hz)		50/60±10%				
OUTPUT						
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)				
Voltage Regulation		±1%				
Output Frequency (Hz)		Line mode: ±1%/±2%/±4%/±5%/±10% of the rated frequency (Optional); Bat. mode: 50/60 (±0.1%)				
Crest Factor		3:1				
Harmonic Distortion (THDv)		≤2% Linear load; ≤5% Non linear load				
Overload	AC mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% immediately turn to bypass				
	Bat.mode	≤110% 10min, ≤125% 1min, ≤150% 5s, >150% immediately shut down				
EFFICIENCY						
AC Mode		Up to 93.5%	Up to 94.5%		Up to 95.2%	
ECO Mode		Up to 98.0%	Up to 98.2%		Up to 98.6%	
BATTERY						
Battery Type		VRLA (Lead acid maintenance free battery)				
Battery Voltage (Vdc)		10~30kVA: ±96/108/120; battery quantity (16~20pcs, 16pcs default, 20pcs no power derating; 18pcs output power factor 0.8/0.9; 16pcs output power factor 0.7/0.8)				40kVA: ±180~300 (30~50pcs)
		±180~300 (30~50pcs)				
Charging Current (Max.)(A)		14	16	18	20	20
ENVIRONMENTAL						
Operating Temperature (℃)		0~40				
Storage Temperature (℃)		-25~55 (No battery)				
Humidity Range		0~95% (Non condensing)				
Altitude (m)		<1000, derating required when>1000				
Noise Level (dB)		<55		<58	<61	<64
PHYSICAL						
Dimension WxDxH (mm)		250×580×655				
Weight (kg)		35	39	40	43	46
STANDARDS						
Safety		IEC/EN 62040-1, IEC/EN 62477-1				
EMC		IEC/EN 62040-2 (IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11, IEC 61000-2-2)				

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DHP44-BT 10-40kVA Battery Pack Specification

MODEL	DHP44 BT40120N	DHP44 BT80120N	DHP44 BT80120N	DHP44 BT60180N	DHP44 BT80240N
BATTERY SYSTEM					
Battery Type	VRLA (Lead acid maintenance free battery)				
Typical Battery Recharge Time (hours)	6~8 (To 90% of full capacity)				
Typical Battery Life (years)	3~5, depend on discharing cycle and ambient temperature				
System Voltage (Vdc)	±120			±180	±240
Battery Quantity (pcs)	2×20	4×20		2×30	2×40
Capacity (Ah)	7/9				
PHYSICAL					
Dimension WxDxH(mm)	250×619×616 (With caster)	250×900×868 (With caster)			
Weight (kg)	122/134	244/265		200/215	244/265
ENVIRONMENTAL					
Operating Environment (℃)	0~40				
Humidity Range	0~95% (Non condensing)				
Altitude	<1000, derating required when >1000				
Noise Level (dB)	<40				
STANDARDS					
Safety	IEC/EN 62040-1, IEC/EN 62477-1				

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3. Remark: DHP44B BT80240N "DHP44" means series; "BT" means Battery Tower cabinet; "80" means battery number inside the cabinet; "240" means the battery system voltage; "N" means battery with neutral connection.

DELTRONICS SATURN SERIES

DHP44 MODEL 3:3 phase PF 1.0
POWERRANGE:50-200 KVA

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Deltronics Saturn Series50-200 KVA

The Saturn DHP44 Series is a three-phase online double-conversion UPS with a true 1.0 power factor, engineered to deliver maximum stability in demanding applications. Its wide input voltage range and high efficiency —95.5% in online mode and up to 99% in ECO mode— ensure reliable performance even under significant power fluctuations.

It supports both VRLA and lithium battery systems and allows parallel operation of up to six units. The UPS handles fully inductive or capacitive loads, includes LBS functionality for synchronization between independent units, and offers multiple communication interfaces. Its robust design and compliance with international standards guarantee safe, dependable operation in industrial and corporate environments.

Features

- Wide input voltage range 138-485Vac (Phase voltage 80-280Vac), no derating when input voltage ≥305Vac
- High input power factor, it is up to 0.99
- 3-level inverter topology, the efficiency can be up to 95.5%
- Support parallel expanded operation: maximum is 6 units
- Support sharing batteries for the UPS in parallel
- Power Walk in function, reduces the start current impact to system, and reduce the capacity of generator
- 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
- Compatible with VRLA or lithium battery
- LBS function can realize 2 independent UPSs work in synchronization, and enhance the reliability of thesystem
- Support USB, RS485, RS232, SNMP and dry contact card

Technical Specifications

MODEL		DHP44-50K	DHP44-60K	DHP44-80K	DHP44-100K	DHP44-120K	DHP44-150K	DHP44-160K	DHP44-180K	DHP44-200K
Capacity (VA/W)		50k/50k	60k/60k	80k/80k	100k/100k	120k/120k	150k/150k	160k/160k	180k/180k	200k/200k
INPUT										
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)								
Operating Voltage Range (Vac)		138~305 for 40% load; 305~485 for 100% load								
Power Factor		≥0.99								
Harmonic Distortion (THDi)		≤3% Linear load								
Bypass Voltage Range (Vac)		Max.voltage: 220: +25% (Optional +10%, +15%, +20%) 230: +20% (Optional +10%, +15%) 240: +15% (Optional +10%) Min.voltage: -45% (Optional -10%, -15%, -20%, -30%)								
Bypass Frequency Range (Hz)		50/60±10%								
OUTPUT										
Nominal Voltage (Vac)		380/400/415 (3Ph+N+PE)								
Voltage Regulation		±1%								
Output Frequency (Hz)		Line mode: Synchronize with input, when the input frequency >±10% (±1%/±2%/±4%/±5% optional), output 50/60 (±0.1); Bat. mode: (50/60±0.2%)								
Crest Factor		3:1								
Harmonic Distortion (THDv)		≤2% with linear load; ≤4% with non linear load								
Overload	Inverter Mode	≤110% 60min, ≤125% 10min, ≤150% 1min, >150% 1.2s shut down inverter								≤110% 60min, ≤125% 1min, >125% 1.2s shut down inverter
	Bypass Mode	30℃: 135% for long term; 40℃: 125% for long term; >1000%, 100ms								
EFFICIENCY										
AC Mode		Up to 95.5%								
ECO Mode		Up to 99%								
BATTERY										
Battery Type		VRLA/Li-ion								
Battery Voltage (Vdc)		360~600								
Charging Current(Max.)(A)		20		40			60			
ENVIRONMENTAL										
Operating Temperature (℃)		0 ~ 40								
Storage Temperature (℃)		-25~55 (No battery)								
Humidity Range		0~95% (Non condensing)								
Altitude (m)		1000, derating required when >1000								
Noise Level (dB)		<55	<58	<60	<62		<63		<64	<66
PHYSICAL										
Dimension WxDxH (mm)		250×828×868		442×850×1200						
Weight (kg)		80	83	144	147	152	190	200	220	230
STANDARDS										
Safety		IEC/EN 62040-1, IEC/EN 62477-1								
EMC		IEC/EN 62040-2 (IEC 61000-2-2, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11)								

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Deltronics Venus RT Series 10-30 KVA

The Venus RT 10–30 kVA UPS is a three-phase, online double-conversion system with a true 1.0 power factor, designed to deliver stable power to critical infrastructures. Its wide input voltage range, generator compatibility, and high operating efficiency ensure continuous performance even under severe mains fluctuations.

It supports both rack and tower installations, integrates intelligent communication, advanced monitoring, and multiple protection features to ensure safe and reliable operation in industrial and corporate environments.

Features

- High power density design
- N+X parallel redundancy, support maximum 4 units in parallel Online double conversion with DSP control
- Input current harmonic: <3%
- Wide input voltage range: 138~485Vac Wide input frequency range 40~70Hz
- Configurable battery quantity 10~30kVA: (30~50pcs supportable VRLA)
- Support Lithium battery (±192Vdc)
- Maximum charging current up to 18A (VRLA) Dual input source
- Colorful 7 inch LCD display
- Versatile LCD human-computer interface Generator compatible
- ECO mode operation for energy saving
- Self-testing when UPS startup 50/60Hz frequency converter mode Cold start
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm
- Multiple communication interface: USB, RS232, RS485, RS485(COM For Li-ion), Parallel port, Dry contact port port, Backfeed port, Intelligent slot, SNMP card (optional)

Rear panel

SNMP card

Parallel cable

Technical Specifications

Model			VN-33-10KRT	VN-33-15KRT	VN-33-20KRT	VN-33-25KRT	VN-33-30KRT
Capacity (VA/Watts)			10k /10k	15k /15k	20k /20k	25k /25k	30k /30k
INPUT							
Input	Rectifier input	Rated AC Input Voltage	380/220Vac, 400/230Vac or 415/240Vac, 50/60Hz (3Phase+Neutral+PE)				
		Input Voltage Range (Startup/Operating)	138~485Vac for 40% load				
		Input Voltage Range (Operating)	305~485Vac for full-load				
		Frequency	50 or 60Hz (40-70Hz Range)				
		Power Factor	0.99 (100% linear load)				
		Harmonic distortion (THDi)	≤3% (100% linear load)				
	Bypass input	Rated AC Voltage	380/220Vac, 400/230Vac or 415/240Vac, 50/60Hz (3Phase+Neutral+PE)				
		Bypass voltage Range	220Vac Upper limit: +25%(optional +10%,+15%,+20%) 230Vac Upper limit: +20%(optional +10%,+15%) 240Vac Upper limit:+15%(optional +10%)				
			Lower limit: -45% (optional -10%, -15%, -20%, -30%)				
		Bypass frequency Range	±10%				
		Synchronization - Window	±1%/±2%/±4%/±5%/±10% optional (default:±10%)				
		Up stream protection, bypass line	Thermomagnetic circuit-breaker, rated up to 125% of nominal output current. IEC 60947-2 curve C.				
		Overload Capacity	Load≤130%: continuer‘200%: last 1minr≥200%: last 100ms shut down UPS				
		Current rating of neutral cable (A)	1.7×In				
OUTPUT							
Inverter Output		Power factor	0,9				
		Rated AC Voltage 1	380/220Vac, 400/230Vac or 415/240Vac, 50/60Hz (3Phase+Neutral+PE)				
		Voltage Regulation	±1%				
		Transient Voltage Response	±5% (linear load)				
		Phase Balance	120° ±1° (100% unbalanced load)				
		Frequency	1.Line Mode: synchronize with input when input frequency ’±10% (±1%/±2%/±4%/±5% optional), output (50/60±0.1%)Hz. 2.Battery Mode:(50/60±0.1%)Hz				
		Crest factor	3:1				
		Harmonic distortion (THD)	≤2% (linear load), ≤4% (non linear load)				
		Overload Capacity	AC Mode: Load≤105%:continuer≤110%: last 60minr≤125%: last 10minr≤150%: last 1minr’150% turn to bypass immediately				
			Bat. Mode: Load≤105%:continuer≤110%: last 60minr≤125%: last 10minr≤150%: last 1minr’150% shut down UPS immediately				
Efficiency		Normal mode	Up to 95.5%				
BATTERY							
Battery Voltage		VRLA battery	±192/204/216/228/240Vdc (Settable,±192/204V: output power factor 0.9)				
		Lithium battery	±192Vdc				
Charge Current(A)		charge current can be set according to battery capacity installed	Max. current 13A (limited by input current)				
SYSTEM FEATURES							
Transfer Time		Synchronous transfer	Utility to Battery : 0ms; Utility to bypass: 0ms				
		Asynchronous transfer	Asynchronous transfer: 15ms (50 Hz), 13.3ms (60 Hz)				
Parallel system			Up to 4				
Alarms			overload, utility abnormal, UPS fault, battery low, etc.				
Protection			short circuit, overload, over temperature, battery low, fan fault alarm.				
Comunication Interface			USB, RS232,RS485, Parallel port, Dry contact, Intelligent slot, SNMP card(optional),Battery temperature sensor(optional)				
ENVIRONMENTAL							
Environment		Operating Temperature	0°C～40°C				
		Storage Temperature	-25ºC～55ºC (battery)				
		Humidity	0ø95% non condensing				
		Acoustical Noise	<58dB from 1M distance				
		Altitude	Up to 1,000 m, without derating				
PHYSICAL							
Dimension W×D×H (mm)			440x670x131 (3U)				
Net weight (kg)			25	27		28	
STANDARDS							
Safety certifications			IEC 62040-1:2017 AMD1:2021				
EMC			IEC 62040-2:2016/EN62040-2-2018				

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DELTRONICS ROOM COOLING SA Series

Available in five models, Capacities from 5kW to 20kW and in three air flow systems (Downflow, UpFlow, & Displacement)

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Deltronics SA Room Cooling

Small and Medium Data Center Room High-efficiency Precision cooling

Deltronics SA series precision cooling adopts the design of large air volume and high sensible heat raćo (SHR) to meet the needs of computer room; The precisely matched high-efficiency cooling system is designed for all-weather operaćon in full 24 hours of 365 days and is equipped with large-area evaporator to ensure the općmal energy-saving operaćon of the unit all the ćme.

Features

High Reliability

- Refrigerant leakage or insufficient detecćon funcćon.
- Water leakage detecćon funcćon (općonal)
- Dual power supply and lightning protecćon funcćons Supported (općonal)
- Wide input voltage design, općonal phase loss and error protecćon, over-voltage and under-voltage protecćon funcćons.
- The unit is designed for uninterrupted, efficient and reliable operaćon 365 days×24 hours a day.
- The unit is suitable for severely cold areas, and can operate reliably at a low temperature of -40˚C aġer općonal low-temperature components.
- 7 inches display

Stepless Speed Regulation Compressor

• The unit adopts inverter stepless speed regulaćon compressor, which can accurately control cooling capacity output by regulaćng the rotaćonal speed of compressor, matching the heat load change operaćon.

High-efficient and Reliable Cooling Solution

- Wet-film humidificaćon, 0 power consumpćon.
- Stepless fan speed regulaćon, air volume adjusted as needed.
- Three-direcćon return air design to increase the return air area and improve the return air efficiency.
- The design of small enthalpy difference in large air volume ensures that the sensible heat raćo (SHR) ≥90%.
- Intelligent unit control avoids the compeććve operaćon of mulćple coolings and configures the cooling capacity as needed.
- High-efficiency and high-quality components match the well-designed refrigeraćon system, and annual energy efficiency raćo (AEER) is up to 4.19.
- Standard R410A environmentally friendly refrigerant.

Inteligent Controller

- Precise microcomputer control system, large-screen display, with mulĆ-level password protecĆon and experts fault diagnosis funcĆon
- Equipped with the standard RS485 communicaĆon interface and supported the remote monitoring
- SNMP Monitoring
- Wide input voltage design, with self-recovery funcĆon aĠer power resume, lack phase protecĆon, faultphase protecĆon and over or low voltage protecĆon funcĆon is opĆonal to ensure the unit uninterrupted working
- It can flexibly switch from the main unit to the backup unit automaĆcally to achieve the automaĆc switch and rotaĆon

Technical Parameters

▼DX Unit (Air-cooled Type)

SA	Unit	005			007			012			017			020		
Unit configuration	-	Single cooling	Constant temperature	Constant temperature and humidity	Single cooling	Constant temperature	Constant temperature and humidity	Single cooling	Constant temperature	Constant temperature and humidity	Single cooling	Constant temperature	Constant temperature and humidity	Single cooling	Constant temperature	Constant temperature and humidity
Total cooling capacity[1]	kW		5.5			7.5			12.5			17.5			20.5	
Sensible capacity[1]	kW		5.2			6.8			11.3			16.1			19.1	
Air volume	m³/h		2000			2250			3000			5000			5000	
Heating capacity	kW	-	2	2	-	2	2	-	2	2	-	4	4	-	4	4
Humidification capacity (Wet film humidification)	kg/h	-	-	1.5	-	-	2	-	-	2	-	-	2.5	-	-	2.5
Number of compressor	pcs		1			1			1			1			1	
Number of fan	pcs		1			1			1			1			1	
Voltage	V		220			220			380			380			380	
Frequency	Hz		50/60			50/60			50/60			50/60			50/60	
Full load current	A	11.0	20.5	21.0	16.2	25.3	25.8	8.4	15.7	16.2	15.5	29.5	30.0	18.0	31.5	32.0
Unit weight	kg	94	96	107	104	106	108	134	136	138	158	160	162	167	168	170
Unit width	mm		600			600			600			750			750	
Unit depth	mm		500			500			500			650			650	
Unit height	mm		1850			1850			1850			1850			1850	

▼Outdoor unit

KSA	Unit	007	010	018	024	028
Heat exchange capacity	kW	7.6	10.4	18.1	23.8	27.2
Full load current	A	0.5	0.7	1.4	1.7	1.7
Unit weight	kg	38	48	60	118	135
Unit width	mm	905	944	988	1118	1118
Unit depth	mm	346	420	440	480	480
Unit height	mm	611	803	1257	1560	1560

Notes:

1.The above parameters are based on indoor return air conditions of 24 ℃, 50% RH, and outdoor ambient temperature of 35 ℃;
2.The outdoor unit needs to be powered from the indoor unit;
3.The minimum working environment temperature for standard outdoor units is -20 ℃, and with low-temperature kits, the minimum working environment temperature is -40 ℃;
4.If there is a demand for customized products, please contact us.
5.Shenzhen Kstar Science & Technology Co., Ltd. reserves the right of final interpretation of the data without prior notice if the data in the tableis changed due to

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DELTRONICS ROOM COOLING MA Series

Available in eleven models, Capacities from 25kW to 120kW and in three air flow systems (Downflow, UpFlow, & Displacement)

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Deltronics MA Room Cooling

Medium and Big Data Center Room High-efficiency Precision cooling

Deltronics MA series precision cooling adopts the design of large air volume and high sensible heat raćo (SHR) to meet the needs of computer room; The precisely matched high-efficiency cooling system is designed for all-weather operaćon in full 24 hours of 365 days and is equipped with large-area evaporator to ensure the općmal energy-saving operaćon of the unit all the ćme.

Features

High Reliability

- Refrigerant leakage or insufficient detecćon funcćon.
- Water leakage detecćon funcćon (općonal)
- Dual power supply and lightning protecćon funcćons Supported (općonal)
- Wide input voltage design, općonal phase loss and error protecćon, over-voltage and under-voltage protecćon funcćons.
- The unit is designed for uninterrupted, efficient and reliable operaćon 365 days×24 hours a day.
- The unit is suitable for severely cold areas, and can operate reliably at a low temperature of -40˚C aġer općonal low-temperature components.
- Modular design

Stepless Speed Regulation Compressor

• The unit adopts inverter stepless speed regulaćon compressor, which can accurately control cooling capacity output by regulaćng the rotaćonal speed of compressor, matching the heat load change operaćon.

High-efficient and Reliable Cooling Solution

- Wet-film humidificaćon, 0 power consumpćon.
- Stepless fan speed regulaćon, air volume adjusted as needed.
- Electronic expansion valve
- The design of small enthalpy difference in large air volume ensures that the sensible heat raćo (SHR) ≥90%.
- Intelligent unit control avoids the compeććve operaćon of mulćple coolings and configures the cooling capacity as needed.
- High-efficiency and high-quality components match the well-designed refrigeraćon system, and annual energy efficiency raćo (AEER) is up to 4.19.
- Standard R410A environmentally friendly refrigerant.

EC FANS

INVERTER COMPRESSOR

Inteligent Controller

- MA Series adopts powerful professional precision air condiĆoner intelligent control system to realize high-efficient, energy-saving, stable and reliable control of the unit with superior performance.
- Standard RS485 intelligent communicaĆon interface, SNMP opĆonal
- Graphical state display and temperature & humidity curve display
- Alarm noĆficaĆon and it can record more than 3000 alarm logs
- MulĆ-level password protecĆon
- Auto restart when mains recovers
- 7" color touch screen, friendly HMIon,
- Faultphase protecĆon and over or low voltage protecĆon funcĆon is opĆonal to ensure the unit uninterrupted working
- It can flexibly switch from the main unit to the backup unit automaĆcally to achieve the automaĆc switch and rotaĆon

Technical Parameters

▼DX Unit (Inverter Compressor)

SA	Unit	025	030	035	040 (Single)	050 (Single)	040 (Dual)	050 (Dual)	060	080	100	120
Total cooling capacity[1)]	kW	27.0	32.0	36.5	42.0	52.5	44.5	53.0	63.0	84.0	105.0	123.0
Sensible capacity[1)]	kW	27.0	32.0	36.5	42.0	52.5	44.5	53.0	63.0	84.0	105.0	123.0
Air volume	m³/h	8500	10000	11000	12000	13500	12500	13500	18700	21600	26000	26500
Heating capacity	kW	9	9	9	9	9	9	9	12	12	12	12
Number of compressors	pcs	1	1	1	1	1	2	2	2	2	2	2
Humidification capacity (Wet film humidification)	kg/h	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Humidification capacity (Electrode humidification)	kg/h	6.0	8.0	8.0	8.0	8.0	3.5	3.5	10.0	10.0	12.0	12.0
Number of fan	pcs	1	1	1	1	1	1	1	2	2	2	2
Fan type	/	EC fan										
Full load current (Cooling only)	A	23	25	32	36	42	37	40	50	72	84	86
Full load current (With heater and humidifier)	A	32.5	36.3	39.2	41.5	50.4	45.5	54.3	60.1	71.3	86.3	100.5
Unit weight	kg	350	370	380	390	410	490	510	680	700	790	800
Unit width	mm	1128	1128	1128	1128	1128	1178	1178	2228	2228	2228	2228
Unit depth	mm	995	995	995	995	995	995	995	995	995	995	995
Unit height	mm	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975	1975
Condenser	KCS	032	042	048	054	064	028*2	032*2	042*2	054*2	064*2	084*2

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DELTRONICS ROW COOLING RC

Available in three widths, 300mm, 400mm and 600mm, Capacities from 25 kW to 70 kW and in three system formats.

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Features

Real-time Monitoring of the Heat Load

• RC series unit is compaÆble with mulÆple temperature sensors, monitoring the heat load change real-Æme, and directly control the supply air temperature (the inlet air temperature of severs), that is safe, reliable, and energy saving, making sure that the inlet air temperature of servers conform to the requirements and the equipment running in the best state

Stepless Speed Regulation Compressor

• The unit adopts inverter stepless speed regulaÆon compressor, which can accurately control cooling capacity output by regulaÆng the rotaÆonal speed of compressor, match the heat load change of heat source in real Æme, and achieve accurate cooling and high energy efficient operaÆon.

Deltronics RC Row Cooling

RC series precision row cooling is elaborately designed for the specific cooling needs of the new generaÆon of high heat density data center racks.

The design is close to heat source applicaÆon. It adopts brand-new airflow distribuÆon method and serves the data center with high reliability, high efficiency, energy saving, accurate measurability and flexibility.

It solves intractable problems in pracÆce with technologies such as real-Æme monitoring, dynamic coordinated output, cabinet size design d no need for raised floor to ensure the uninterrupted, high-efficient and reliable operaÆon of key equipment for 24 hours of 365 days

Redundant Fan Design

• RC series units are standard with the EC fan that can rapidly response to the output requirements; the effect of energy saving in the part load mode is remarkable, up to 30% higher than the convenÆonal AC fan.

Inverter Compressor

• RC series unit adopts inverter stepless speed regulaÆon compressor,which can accurately control cooling capacity output by regulaÆng the rotaÆonal speed.

▼DX Unit (Air-cooled Type)

FS***	Unit	007		012		007		012	
Compressor type	-	Fix speed compressor				Inverter compressor			
The unit configuration	/	Constant temperature	Constant temperature and humidity	Constant temperature	Constant temperature and humidity	Constant temperature	Constant temperature and humidity	Constant temperature	Constant temperature and humidity
Total cooling capacity[1]	kW	7.5	7.5	12.5	12.5	7.5	7.5	12.5	12.5
Sensible capacity[1]	kW	7.5	7.5	12.5	12.5	7.5	7.5	12.5	12.5
Air volume	m³/h	3400	3400	3600	3600	3400	3400	3600	3600
Number of fan	pcs	4	4	4	4	4	4	4	4
Fan type	-	AC Fan				EC Fan			
Direction of air supply	-	Side air supply/return				Side air supply/return			
Heating capacity	kW	2	2	2	2	2	2	2	2
Humidification capacity (Wet film humidification)	kg/h	-	2	-	2	-	2	-	2
Voltage	V	220	220	380	380	220	220	220	220
Full load current	A	23.5	24.0	19.5	20.0	32.8	33.3	40.5	41.0
Unit weight	kg	208	210	223	225	208	210	223	225
Unit width	mm	300	300	300	300	300	300	300	300
Unit depth	mm	1200/1400	1200/1400	1200/1400	1200/1400	1200/1400	1200/1400	1200/1400	1200/1400
Unit height	mm	2000	2000	2000	2000	2000	2000	2000	2000
Outdoor unit model	KCS	010		018		010		018	

▼DX Unit (Air-cooled Type)

FS***	Unit	025	025	030	030	040	050	060	070
Compressor type	-	Inverter Compressor							
Total cooling capacity[1]	KW	25.5	25.5	30.5	30.5	42.8	52.0	65.0	70.0
Sensible capacity[1]	KW	25.5	25.5	30.5	30.5	42.8	52.0	65.0	70.0
Air volume	m³/h	5050	7000	5050	8000	9500	11000	12500	14200
Fan type	-	EC Fan							
Heating capacity	kW	3.5	3.5	3.5	6.0	6.0	9.0	9.0	9.0
Humidification capacity (Wet film humidification)	kg/h	2.5	2.5	2.5	3.5	3.5	3.5	3.5	3.5
Number of compressors	pcs	1	1	1	1	1	1	1	1
Voltage	V	380	380	380	380	380	380	380	380
Frequency	Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60	50/60
Full load current (Cooling only)	A	20.0	20.0	30.0	30.0	32.0	35.0	46.0	50.0
Full load current (With heater and humidifier)	A	30.0	30.0	36.5	36.5	38.5	46.0	55.0	60.0
Unit width	mm	300	600	300	600	600	600	600	600
Unit depth	mm	1100/1200	1100/1200	1100/1200	1100/1200	1100/1200	1100/1200	1100/1200	1200
Unit height	mm	2000/2200	2000/2200	2000/2200	2000/2200	2000/2200	2000/2200	2000/2200	2000/2200
Unit weight	kg	230	265	240	290	290	345	360	375
Number of fans	pcs	6	2	6	2	3	3	3	3
Outdoor unit model	KCS	032	032	042	042	054	064	084	096

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