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EVADA

HIGH FREQUENCY UPS



EVADA (Xiamen) Technology Co., Ltd.

ABOUT EVADA



EVADA (Xiamen) Technology Co., Ltd. was founded in 1998, for over two decades, the company has been focusing on power conversion and smart energy fields, offering solutions for data center, digital power, energy storage and photovoltaic power. EVADA is a high-tech enterprise that achieves the TOP 5 brand of China UPS, and currently being present in 60+ countries. As part of the general push for the transformation of energy decarbonization, EVADA stays ahead in the field and trying to promote “green” development of energy.

TOP 5
UPS brand in China

28+
Years' experience in power conversion and smart energy field

32
Branches nationwide and counting

2
R&D centers

30,000+
Square meters workplace

20%+
R&D Investment ratio

40%+
R&D Engineer

200+
Patents,National & Industry Standards

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HIGH FREQUENCY UPS

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DTH33 Series

3PhaseIn 3PhaseOut

Power Range

10kVA-40kVA

Working Mode

10-20kVA: 1 Phase in/1Phase out,
3 Phase in/1Phase out,
3 Phase in/3Phase out.

30-40kVA: 3 Phase in/1 Phase out,
3 Phase in/3 Phase out.

Applications

Widely applied in telecommunications, finance, networking, securities, railways, etc.

Features

Flexible Layout • Expandable Capacity

- Built-in interface for connecting external battery packs, enabling on-demand expansion to meet extended backup time requirements.
- Multiple units in parallel to a single battery pack, effectively saving installation space and reducing O&M costs.
- Supports up to 4 units in parallel, with flexibly expandable power capacity for different load conditions.
- Classic vertical tower design, floorstanding with universal wheels for enhanced scene adaptability.
- Compatible with 1Ph In/1Ph Out, 3Ph In/1Ph Out, 3Ph In/3Ph Out configurations,enabling flexible deployment based on site conditions.

Ultra-Low Loss • High Efficiency

- Smart fan speed control technology automatically adjusts fan speed based on real-time load, precisely balancing cooling and energy consumption.
- When utility power is stable, the UPS can operate in ECO mode to optimize energy efficiency and reduce operating power consumption.
- Overall efficiency up to 96%,effectively reducing power loss and operating costs.
- Optimized input characteristics with high input power factor and low input current har monics, effectively reducing grid pollution.
- Output power factor up to 1.0, improving power utilization by up to 20% compared with conventional UPS systems.



Stable & Reliable • Uninterruptible Power

- DC cold start function enables quick startup without mains power, ensuring front-end critical equipment operates continuously and stably.
- With automatic restart upon utility power recovery, the UPS resumes operation automatically, reducing the need for manual intervention.
- Optional battery temperature compensation dynamically adjusts charging voltage, effectively extending battery service life.
- Core component temperature visual monitoring provides early warning of overheating risks, preventing equipment downtime.
- Compatible with generator input, continuously providing stable and clean power for loads.

Smart Protection • Easy Maintenance

- First-time startup password verification prevents unauthorized operation, avoiding equipment safety risks.
- Real-time operating data and historical fault records are available for review, providing clear system status and enabling quick fault identification for more efficient troubleshooting and maintenance.
- Built-in maintenance switch detection with real-time alarms, auto-isolating circuits during maintenance to ensure operational safety.
- Touch screen + LED status indicators for convenient equipment status monitoring.
- Standard RS485 and BMS interfaces, with optional RS232, SNMP, and intelligent parallel operation support.



Specification

Model	DTH33-10KS	DTH33-15KS	DTH33-20KS	DTH33-30KS	DTH33-40KS
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA
Input					
phase	3P+N+PE, 1P+N+PE			3P+N+PE	
Rated Voltage	380Vac/220Vac				
Rated Frequency	50/60 Hz				
Voltage Range	176-280 Vac (phase voltage) at 100% load, 80-176 Vac (phase voltage) linear derating				
Frequency Range	40Hz~70Hz				
Power Factor	⩾0.99@100% load				
Current THDi	⩽2%@linear full load; ⩽5%@nonlinear full load				
Bypass					
Rated Voltage	208/220/230/240Vac (phase voltage) Default 220Vac				
Rated Frequency	50/60Hz				
Output					
Rated Voltage	208/220/230/240Vac (phase voltage), default 220Vac 380/400/415Vac (line voltage), default 380Vac				
Rated Frequency	50/60Hz, default 50Hz				
Output Power Factor	1				
Output Voltage Accuracy	⩽1%				
Output Frequency Accuracy	±0.1Hz				
Output THDu	⩽1%@linear full load; ⩽3%@nonlinear full load				
Overload Capacity	<115%: continuous; 115%~130%: 10min; 130%~155%: 1min; >155%: 200ms				
Battery					
Battery Type	Leadacid battery				
Battery Quantity	Up to 64 pcs 12V/9Ah			Up to 80 pcs 12V/9Ah	

Specification

Model	DTH33-10KS	DTH33-15KS	DTH33-20KS	DTH33-30KS	DTH33-40KS
System					
Display	Touch screen				
Max System Efficiency	>96%				
Transfer Time	0ms				
Interface	Standard: RS485, BMS Optional: Parallel kit, Battery temp compensation module, SNMP card, Dry contact card				
Operating Environment					
Operating Temperature	-5~40°C				
Storage Temperature	-20~70°C				
Relative Humidity	0~95% (noncondensing)				
Noise (1m)	⩽55dB@1m				
Altitude	<2000m, derating required above 2000m according to IEC 620403				
Other Features					
Dimensions (W*D*H mm)	300*855*870		300*855*870		300*875*1020
Net Weight (excl. battery kg)	56		58		78

DTH Series

3 phase in, 3 phase out High-frequency online UPS

Power Range

10kVA-40kVA

Working Mode

10-20kVA: 1 Phase in/1Phase out,
3 Phase in/1Phase out,
3 Phase in/3Phase out.

30-40kVA: 3 Phase in/1 Phase out,
3 Phase in/3 Phase out.

Application

Widely applied in telecommunications, finance, networking, securities, railways, etc

Features

Flexible Deployment • Easy Expansion

- Supports both Li-ion and lead-acid batteries for flexible scenarios.
- Parallel units can share battery packs, saving space and O&M costs
- Supports 4 units in parallel, flexibly expanding capacity for various loads.
- 3U ultra-slim design saves rack space and improves utilization.
- Compatible with 1Ph/1Ph, 3Ph/1Ph, 3Ph/3Ph in/out configurations,supporting tower/rack installation for flexible deployment.

High Efficiency • Low Loss

- Smart fan speed control automatically adjusts the fan speed according to the load, balancing heat dissipation and energy consumption.
- ECO economy mode supplies loads when mains quality is good,optimizing energy use and cutting costs.
- Up to 96% overall efficiency, reducing power loss and operating costs.
- Optimized input with high PF and low current harmonics reduces grid pollution.
- Output PF up to 1.0, improving power utilization by 20%.



Tower/Rack 2-in-1

Reliable Power • Uninterruptible

- Supports DC cold start, enabling quick startup without utility power to ensure continuous operation of critical equipment.
- Auto-restart on mains recovery reduces manual supervision and intervention.
- Multiple protections with instant audio-visual alarms ensure safety.
- Optional battery temperature compensation extends battery life.
- Visualized temperature monitoring of core components, providing early warning of over-heating risks.



* The dual-mode design allows it to stand or lie down.

Smart Safety • Easy Maintenance

- First-time startup password prevents misoperation risks.
- Real-time and historical record queries show status and locate faults fast.
- Maintenance breaker status detection alarms instantly and auto-isolates circuits during repair, ensuring safety.
- Gravity-sensing LCD + LED indicators with adaptive viewing angle.
- Standard RS485 and BMS interfaces, with optional RS232, SNMP, and intelligent parallel operation support.

Specification

Model	DTH33-10KRL	DTH33-15KRL	DTH33-20KRL	DTH33-30KRL	DTH33-40KRL
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA
Input					
Phase	3P+N+PE, 1P+N+PE			3P+N+PE	
Rated Input Voltage	380Vac/220Vac				
Rated Frequency	50/60Hz				
Input Voltage Range	176~280Vac (phase voltage) at 100% load, 80~176Vac (phase voltage) linear derating				
Input Frequency Range	40Hz~70Hz				
Input Power Factor	⩾0.99@100% load				
Input Current THDi	⩽3%@linear full load; ⩽5%@nonlinear full load				
Bypass					
Rated Voltage	208/220/230/240Vac (phase voltage), default 220Vac				
Rated Frequency	50/60Hz				
Output					
Rated Output Voltage	208/220/230/240Vac (phase voltage), default 220Vac 380/400/415Vac (line voltage), default 380Vac				
Rated Output Frequency	50/60Hz, default 50Hz				
Output Power Factor	1				
Output Voltage Accuracy	<1%				
Output Frequency Accuracy	±0.1Hz				
Output THDu	⩽1%@linear full load; ⩽4%@nonlinear full load				
Overload Capacity	<115%: continuous; 115%~130%: 10min; 130%~155%: 1min; >155%: 200ms				
Battery					
Battery Type	Leadacid/LiFePO4/ternary Li battery (optional), leadacid default				
Battery Quantity (Longbackup)	Leadacid: ±168~±300VDC (±14~25 pcs; 12V each; ±16 pcs factory default) Battery Quantity (Longbackup) LiFePO4: ±166.4~±300.8VDC (±52~94 strings; 3.2V each; ±60 factory default) Ternary Li: ±165.6~±302.4VDC (±46~84 strings; 3.6V each; ±54 factory default)				

Specification

Model	DTH33-10KRL	DTH33-15KRL	DTH33-20KRL	DTH33-30KRL	DTH33-40KRL
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA
System					
Display	Gravitysensing color LCD, LED indicators, function keys				
Max System Efficiency	>96% (mains)				
Transfer Time	0ms				
Interface	Standard: RS485, BMS communication Optional: parallel kit, battery temp compensation module, SNMP card, dry contact card				
Environment					
Operating Temperature	-5~40°C				
Storage Temperature	-20~70°C				
Relative Humidity	0~95% (noncondensing)				
Noise (1m)	⩽55dB@1m				
Altitude	<2000m, derating above 2000m per IEC 620403				
Other					
Dimensions (W*D*H/mm)	430*500*130			430*665*130	
Weight (kg)	20	22.5	22.5	35	37.5

DTH33 Series

3Phase In/Out HighFrequency Online UPS (Tower)

Power Range

50kVA-200kVA

Working Mode

3Ph In/3Ph Out

Applications

Finance, telecommunications, security office, power rooms, network centers.

Features

Flexible Layout • Expandable Capacity

- The inverter and PFC of the UPS adopt an advanced controlsystembased on a 32-bit high-speed DSP chip, achieving faster dataprocessing and signal control, greatly improving overall performance and reliability.
- A 7-inch touchscreen provides real-time visibility of UPS operation, load, utility power, and battery status, enabling users to monitor system performance and operating conditions.
- When power is applied and the UPS is turned on, it immediately begins a self-test of its critical circuits, which can detect input phase sequence and reverse battery polarity. This allows for the timely detection of problems and the elimination of potential faults.
- Automatic frequency detection with 50 Hz/60 Hz compatibility for global power systems.
- After low-battery protection shutdown, the UPS automatically restarts the inverter and recharges the battery once mains recovers.
- Cold start function allows battery startup of the UPS during mains abnormalities, meeting emergency needs.
- Mains start function starts the UPS directly from mains withoutbatteries, usable as a high-precision voltage stabilizer.
- EPO emergency shutdown function quickly turns off the UPS in emergencies.
- RS232/RS485 dry contact ports, with optional SNMP card for flexible networking
- ECO economy mode improves power utilization and reduces energy costs.



Specification

Model	DTH33-50KL	DTH33-60KL	DTH33-80KL	DTH33-100KL	DTH33-120KL	DTH33-150KL	DTH33-180KL	DTH33-200KL
Capacity	50kVA/50kW	60kVA/60kW	80kVA/80kW	100kVA/100kW	120kVA/120kW	150kVA/150kW	180kVA/180kW	200kVA/200kW
Input								
Input Configuration	3Phase 5Wire (3Φ+N+PE)							
Rated Input Voltage	380Vac/400Vac/415Vac							
Input Voltage Range	304~478Vac (no derating); 208~304Vac output derating)							
Input Frequency Range	40~70Hz							
Input Power Factor	⩾0.99 (100% load)							
Input Current Harmonics	<3% linear full load; <5% nonlinear full load							
Battery Voltage	±240VDC default ±180~±300VDC settable							
Battery Quantity	40 pcs default, 30~50 pcs(adj.) derating required for 30~34 pcs							
Output								
Output Phase	3Phase 5Wire (3Φ+N+PE)							
Rated Output Voltage	380Vac/400Vac/415Vac							
Output Voltage Accuracy	±1%							
Output Frequency Accuracy	50Hz±0.1Hz or 60Hz±0.1Hz (battery mode); rated frequency ±0.5/±1/±2/±3Hz (settable, sync range)							
Output Power Factor	1							
Output Waveform Distortion	⩽2% (100% linear load); ⩽4% (100% nonlinear load)							
Output Crest Factor	3:1 (max)							
Efficiency	>96% (mains)							
Overload Capacity	105%~110%: 60min; 110%~125%: 10min; 125%~150%: 1min; >150%: 200ms							
System								
Transfer Time	0 ms							
Communication Interface	Standard: RS232, RS485; Optional: parallel kit, LBS							
Display	LCD+LED							
Environment								
Operating Temperature	0~40°C							
Relative Humidity	0%~95% (noncondensing)							
Altitude	No derating up to 1000m; above 1000m, derate 1% per 100m							
Noise	⩽60dB @ 1m							
Other								
Dimensions (W*D*H/mm)	510*840*1200					510*840*1600		
Weight (kg)	95	120	215	220		360	375	380
Color	Black							

* Derating required for battery quantity ranging from 30 to 34 pcs.

DTH11 Series

Online Double Conversion

1kVA-10kVA, 1 Phase Input, 1 Phase Output

Advanced Technology

- Generator input compatible
- 50/60Hz Auto-sensing
- Wide input range

Outstanding Flexibility

- 6/10kVA support 16-20 battery units configuration
- Multifunction LCD＆LED readout
- Support RS232, USB, optional: RS485, dry contact card, SNMP

Green Performance

- PFC technology, input power factor ≥ 0.99
- ECO mode for energy saving
- Output power = 1
- Fan speed automatically adjusts according to the load

Applications: Computer, data center, telecom, finance, security, transportation, medical, petrochemical, etc.



Communication Interface

RS232 • USB • EPO • SNMP slot



Specification

Model	DTH11-1K	DTH11-1KL	DTH11-2K	DTH11-2KL	DTH11-3K	DTH11-3KL	DTH11-6K	DTH11-6KL	DTH11-10K	DTH11-10KL
Capacity	1kVA		2kVA		3kVA		6kVA		10kVA	
Input										
Voltage Range	1 Phase (L+N+PE)110～300VAC									
Frequency Range	40Hz ~ 70Hz									
Power Factor	≥0.99									
THDi	＜3% (100% linear load) ；＜5% (100% nonlinear load)									
Output										
Voltage	208/220/230/240VAC									
Voltage Accuracy	±1%									
Frequency Range	50/60Hz ± 0.1%									
Overload	102%~110%, 30min; 111%~130%, 10min; 131%~150%, 30sec; ＞150%, 0.2sec									
Power Factor	1									
THDu	≤2% @ (100% linear load)； ≤5% @ (100% nonlinear load)									
Switching Time	0 ms									
Efficiency										
Inverter Mode	94.5%		95.5%							
Battery										
Standard	Model	12V / 7Ah								
	Number	2		4		6		16		
	Charging Current	1A		1-4A Configurable(default 1A)						
	Rated Voltage	24V		48V		72V		192V		
Long Backup	Number	3		6		8		16-20		
	Charging Current	1-12A Configurable(default 5A)								
	Voltage	36V		72V		96V		192-240V		
System										
Communication	RS232, USB, optional: RS485, dry contact card, SNMP									
Environment										
Operating Temperature	0 ~ 40°C									
Humidity	0 ~ 95%(Non-condensing)									
Altitude	＜1000m no derate, ＞1000m derate(refer to IEC62040)									
Noise	< 50dB @ 1 m									
Physical										
Standard	W×D×H(mm)	144 x 286 x 225		144 x 399 x 225		190 x 400 x 322		191 x 400 x 700		
	Weight(kg)	8.2		15.3		20.5		47.2		48.5
Long Backup	WxDxH(mm)	144 x 286 x 225		144 x 399 x 225				191 x 400 x 322		
	Weight(kg)	3.7		5.5		6.0		8.8		9.6

* Specifications subject to change without notice.

DTH11-R Series

Online Double Conversion

1kVA-10kVA, 1 Phase Input, 1 Phase Output

Advanced Technology

- Generator input compatible
- 50/60Hz Auto-sensing
- Wide input range

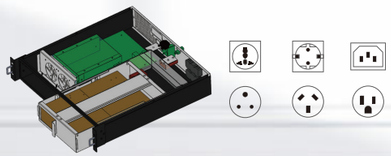
Outstanding Flexibility

- 6/10kVA support 16-20 battery units configuration
- Multifunction LCD＆LED readout
- Support RS232, USB, EPO,optional: RS485, dry contact card, SNMP
- Compact, rackmount design

Green Performance

- PFC technology, input power factor ≥ 0.99
- ECO mode for energy saving
- Output power = 1
- Fan speed automatically adjusts according to the load

Applications: LAN server, communication base station, data center, finance system branch, automation control system, etc.



Available Sockets



Specification

Model		DTH11-1KR	DTH11-1KRL	DTH11-2KR	DTH11-2KRL	DTH11-3KR	DTH11-3KRL	DTH11-6KRL	DTH11-10KRL
Capacity		1kVA		2kVA		3kVA		6kVA	10kVA
Input									
Voltage Range		1 Phase (L+N+PE)110～300VAC							
Frequency Range		40Hz ~ 70Hz							
Power Factor		≥0.99							
THDi		＜3% (100% linear load) ；＜5% (100% nonlinear load)							
Output									
Voltage		208/220/230/240VAC							
Voltage Accuracy		±1%							
Frequency Range		50/60Hz ± 0.1%							
Overload		102%~110%, 30min; 111%~130%, 10min; 131%~150%, 30sec; ＞150%, 0.2sec							
Power Factor		1							
THDu		≤2% @ (100% linear load)；≤5% @ (100% nonlinear load)							
Switching Time		0 ms							
Efficiency									
Inverter Mode		94.5%		95.5%					
Battery									
Standard	Model	12V / 7Ah							
	Number	2		4		6		16-20	
	Charging Current	1A		1-4A Configurable(default 1A)					
	Rated Voltage	24V		48V		72V		192-240V	
Long Backup	Number	3		6		8		16-20	
	Charging Current	1-12A Configurable(default 5A)							
	Voltage	36V		72V		96V		192-240V	
System									
Communication		RS232, USB,EPO,optional: RS485, dry contact card, SNMP							
Environment									
Operating Temperature		0 ~ 40°C							
Humidity		0 ~ 95%(Non-condensing)							
Altitude		＜1000m no derate, ＞1000m derate(refer to IEC62040)							
Noise		< 50dB @ 1 m							
Physical									
Standard	WxDxH(mm)	440x369x88		440x449x88		440x600x88		440x470x88	
	Weight(kg)	10.2		17.3		22.5		51	60.8
Long Backup	WxDxH(mm)	440x369x88		440x449x88				440x470x88	
	Weight(kg)	5.7		7.5		8.0		10.8	11.6

* Specifications subject to change without notice.

DTH31 Series

High frequency online UPS (Tower)

10kVA-40kVA,Three phase in, one phase out.

Advanced Technology

- Generator input compatible
- 50/60Hz Auto-sensing
- Wide input range

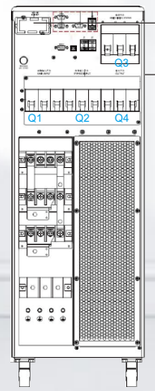
Outstanding Flexibility

- 30-40 batteries configurable
- High-definition color LCD+LED display
- RS232, RS485, EPO and smart slots as standard

Green Performance

- ECO mode efficiency 99%
- Intelligent fan speed control
- Input factor≥0.99

Postal communications, finance, government agencies, energy and chemical industry, transportation, industrial and commercial taxation, medical care, national defense and military, etc.



Smart Slot

Switch

Q1: Input, Q2: bypass, Q3: Maintenance, Q5: Output



Specification

Model	DTH31-10KL	DTH31-15KL	DTH31-20KL	DTH31-30KL	DTH31-40KL
Capacity	10kVA	15kVA	20kVA	30kVA	40kVA
Input					
Rated voltage	380/400/415Vac (3 phases + N + PE)				
Voltage range	304Vac~478Vac (line voltage) full load; 304Vac~208Vac (line voltage) (output derating)				
Frequency range	50/60Hz(range:40Hz~70Hz)				
Power Factor	≥0.99 (100% load)				
THDi	Linear full load <3%; non-inear full load <5%				
Output					
Rated voltage	220/230/240Vac (single phase + N)				
Voltage accuracy	±1%				
THDu	≤2% (100% linear load); ≤4% (100% non-linear load)				
Power Factor	0.9				
Frequency range (synchronization range)	Rated frequency +0.5,+1,+2,+3Hz(adjustable)				
Frequency range (battery mode)	50Hz±0.1Hz or 60Hz±0.1Hz				
Overload capacity	105%~110%:60min; 110%~125%:10min; 125%~150%:1min;>150%:200ms				
Crest Factor	3:1 (maximum)				
Switching time	0ms				
Efficiency					
Inverter Mode	Up to 95%				
Battery Characteristics					
Battery voltage	360~528VDC(384VDC by default)		360~528VDC(432VDC by default)		
Battery numbers	30~44 nodes (12VDC, 32 nodes by default)		30~44 nodes (12VDC, 36 nodes by default)		
Physical properties					
Dimensions WxDxH(mm)	285x535x632		285x815x815		
Weight(kg)	36		57		
Environmental conditions					
Noise	≤55dB@1meter		≤65dB@1meter		
Altitude	No derating at 1000m, derating of 1% for every 100m above 1000m				
Relative humidity	0~95%,no condensation				
Operating temperature	0~40°C(Battery life will be shortened in an environment >25°C)				
Communications					
Standard	RS232/RS485 / Dry Contact				
Optional	SNMP card, parallel communication cable				

* Specifications subject to change without notice.

DTH33 Series(10-40kVA)

Online Double Conversion

10kVA-40kVA, 3 Phase Input, 3 Phase Output

Advanced Technology

- Wide input range
- 50/60Hz Auto-sensing
- N+X parallel technology
- Automated self-testing
- Generator compatible
- Auto-restart on power return
- after low voltage shutdown

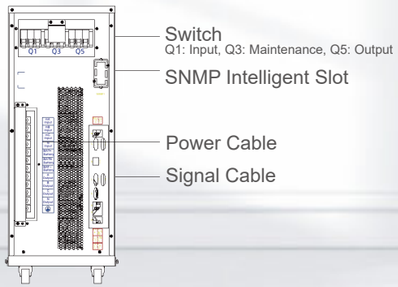
Outstanding Flexibility

- Multifunction LCD＆LED readout and mains power start
- Cold start function
- Optional output isolation transformer

Green Performance

- ECO mode for energy saving
- PFC technology, input power factor ≥ 0.99
- Support RS232, RS485, EPO, and intelligent slot

Applications: ommunication, finance, security, data center, medical equipment, industrial control device



3 Switches Model



Specification

Model	DTH33-10KL	DTH33-10KS	DTH33-15KL	DTH33-20KL	DTH33-20KS	DTH33-25KL	DTH33-30KL	DTH33-30KS	DTH33-40KS
Capacity	10kVA	10kVA	15kVA	20kVA	20kVA	25kVA	30kVA	30kVA	40kVA
Input									
Rated Voltage	(3 phase+N+PE) 380/400/415VAC								
Voltage Range	305～477VAC								
Frequency Range	40 ~ 70Hz								
Power Factor	≥0.99 @ 100% load								
THDi	＜3%（100% linear load）；＜5%（100% nonlinear load）								
Output									
Voltage	380/400/415VAC (3 Phase+N)								
Voltage Accuracy	±1%								
THDu	≤2%（100% linear load）；≤4%（100% nonlinear load）								
Power Factor	1.0						0.9(Optional 1.0)		1.0
Frequency Range	Synchronization Range	Default: ±2Hz；±0.5Hz, ±1Hz, ±3Hz（configurable）							
	Battery Mode	50Hz ± 0.1Hz or 60Hz ± 0.1Hz							
Overload	＜105%，long run; 105% ~ 110%，60 min; 110 ～ 125% 10 min; ＞125 ～ 150% 1 min; ＞150%，0.2sec								
Crest Factor	3:1								
Switching Time	0 ms								
Efficiency									
Inverter Mode	95%								
ECO Mode	99%								
Battery									
Voltage	KL: ±192VDC, ±180 - ±264V (30 - 44 units configurable) with neutral wire KS: 10-30kVA: Allowing up to 60 units/2 sets 40kVA: Allowing up to 80 units/2 sets								
System									
Display	5" LCD touch screen								7" LCD touch screen
Communication	RS232, RS485, dry contact,intelligent slot								
Environment									
Operating Temperature	0 ~ 40°C (Battery life will be shorten when temperature>25°C)								
Humidity	0 ~ 95% (Non-condensing)								
Altitude	1000m no derate，＞1000m derate 1% per 100m								
Noise	≤60dB (A) @ 1m								
Protection Class	IP20								
Physical									
W×D×H(mm)	280×685×725	400×686×1100	280×685×725	280×685×725	400×686×1100	280×685×725	280×685×725	400×686×1100	425*780*1600
Weight(kg)	45	55	45	45	55	45	45	55	128

* Specifications subject to change without notice.

DTH33 Series(40-120kVA)

Online Double Conversion

40kVA-120kVA, 3 Phase Input, 3 Phase Output

Advanced Technology

- Wide input range
- 50/60Hz Auto-sensing
- N+X parallel technology
- Automated self-testing
- Generator compatible

Outstanding Flexibility

- Battery numbers configurable
- Multifunction LCD＆LED readout and mains power start
- Cold start function

Green Performance

- ECO mode for energy saving
- PFC technology, input power factor ≥ 0.99

Applications: Communication, finance, security, data center, medical equipment, industrial control device



30 - 44 units battery configuration



Specification

Model	DTH33-40KL	DTH33-50KL	DTH33-60KL	DTH33-80KL	DTH33-100KL	DTH33-120KL
Rated Capacity	40kVA	50kVA	60kVA	80kVA	100kVA	120kVA
Input						
Rated Voltage	380/400/415VAC（3 Phase+N+PE）					
Voltage Range	304～478VAC（line voltage）full load; 208 ~ 304VAC (line voltage)					
Frequency Range	50/60Hz (range: 40Hz ~ 70Hz)					
Power Factor	≥0.99					
THDi	＜3%（100% linear load）；＜5%（100% nonlinear load）					
Output						
Voltage	380/400/415VAC (3 Phase+N)					
Voltage Accuracy	±1%					
THDu	≤2%（100% linear load）；≤4%（100% nonlinear load）					
Power Factor	1.0		0.9(Optional 1.0)	1.0		0.9(Optional 1.0)
Frequency Range – Synchronization Range	±0.5Hz, ±1Hz, ±2Hz, ±3Hz（configurable）					
Frequency Range – Battery Mode	50Hz ± 0.1Hz or 60Hz ± 0.1Hz					
Overload	105%～110%，60 min; 110 ～ 125%, 10 min; 125 ～ 150%，1 min; ＞150%，0.2sec					
Crest Factor	3:1(maximum)					
Switching Time – (Main power ⇔ Battery)	0ms					
Switching Time – (Inverter ⇔ Bypass)	0ms					
Efficiency						
Inverter Mode	95%					
Battery						
Voltage	Default: ±192VDC, 360 - 528V (30 - 44 units configurable) with neutral wire					
System						
Display	7" LCD touch screen					
Communication	RS232, RS485, smart card slot×2					
Environment						
Operating Temperature	0 ~ 40°C (Battery life will be shorten when temperature>25°C)					
Humidity	0 ~ 95% (Non-condensing)					
Altitude	1000m no derate，＞1000m derate 1% per 100m					
Noise	≤60dB @ 1m					
Physical						
W×D×H(mm)	425 × 780 × 1200				600 × 800 × 1600	
Weight(kg)	108		135		230	

* Specifications subject to change without notice.

DTH33 Series(160-200kVA)

Online Double Conversion

160kVA-200kVA, 3 Phase Input, 3 Phase Output

Advanced Technology

- Wide input range
- 50/60Hz Auto-sensing
- N+X parallel technology
- Automated self-testing
- Generator compatible

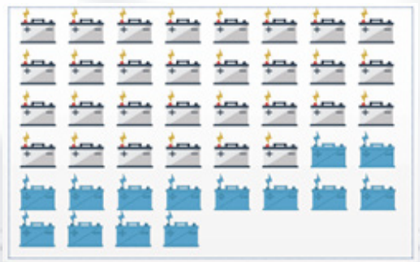
Outstanding Flexibility

- Battery numbers configurable
- Multifunction LCD＆LED readout and mains power start
- Cold start function

Green Performance

- ECO mode for energy saving
- PFC technology, input power factor ≥ 0.99

Applications: Communication, finance, security, data center, medical equipment, industrial control device



30 - 44 units battery configuration



Specification

Model		DTH33-160KL	DTH33-200KL
Rated Capacity		160kVA	200kVA
Input			
Rated Voltage		380/400/415VAC（3 Phase+N+PE）	
Voltage Range		304～478VAC（line voltage）full load; 208 ~ 304VAC (line voltage)	
Frequency Range		50/60Hz (range: 40Hz ~ 70Hz)	
Power Factor		≥0.99	
THDi		＜3%（100% linear load）；＜5%（100% nonlinear load）	
Output			
Voltage		380/400/415VAC (3 Phase+N)	
Voltage Accuracy		±1%	
THDu		≤2%（100% linear load）；≤4%（100% nonlinear load）	
Power Factor		1.0	0.9
Frequency Range	Synchronization Range	±0.5Hz, ±1Hz, ±2Hz, ±3Hz（configurable）	
	Battery Mode	50Hz ± 0.1Hz or 60Hz ± 0.1Hz	
Overload		105％~ 110％，60 min; 110 ～ 125％, 10 min; 125 ～ 150％，1 min; ＞150％，0.2sec	
Crest Factor		3:1(maximum)	
Switching Time	(Main power ⇔ Battery)	0ms	
	(Inverter ⇔ Bypass)	0ms	
Efficiency			
Inverter Mode		96%	
Battery			
Voltage		Default: ±192VDC, 360 - 528V (30 - 44 units configurable) with neutral wire	
System			
Display		7" LCD touch screen	
Communication		RS232, RS485, smart card slot×2	
Environment			
Operating Temperature		0 ~ 40°C (Battery life will be shorten when temperature>25°C)	
Humidity		0 ~ 95% (Non-condensing)	
Altitude		1000m no derate，＞1000m derate 1% per 100m	
Physical			
W×D×H(mm)		600 × 850 × 1600	
Weight(kg)		385	395

* Specifications subject to change without notice.

HP-GRL Series

Online Double Conversion

10kVA-30kVA, 3 Phase Input, 3 Phase Output/3 Phase Input, 1 Phase Output

Energy Efficient

- Ultra-low input current harmonics with latest IGBT tech
- Up to 95% efficiency, with ECO mode reaching 99%
- DSP-based control

Advanced Control and Adaptability

- 5” touch screen
- Wide mains input range
- Supports dry contact and SNMP
- Intelligent battery management: three-stage charging

Enhanced Functionality

- Battery numbers: 30 - 44 units configurable
- EPO and cold start function
- 3 Phase input, 3 phase output model support parallel operation capability

Applications: Postal communication, finance, government, energy&chemicals, transportation, taxation, healthcare, etc.



Rear Panel



Specification

Model	HP1000GRL	HP1500GRL	HP2000GRL	HP2500GRL	HP3000GRL
Capacity	10kVA	15kVA	20kVA	25kVA	30kVA
Input					
Rated Voltage	(3 phase+N+PE) 380/400/415VAC				
Voltage Range	305～477VAC				
Frequency Range	40 ~ 70Hz				
Power Factor	≥0.99 @ 100% load；≥0.98 @ 50% load				
THDi	＜3%（100% linear load）；＜5%（100% nonlinear load）				
Output					
Voltage	380/220VAC			380VAC	
Voltage Accuracy	±1%				
THDu	≤2%（100% linear load）；≤4%（100% nonlinear load）				
Power Factor	1.0				0.8
Frequency Range – Synchronization Range	Default: ±2Hz；±0.5Hz, ±1Hz, ±3Hz（configurable）				
Frequency Range – Battery Mode	50Hz ± 0.1Hz or 60Hz ± 0.1Hz				
Overload	＜105%，long run; 105% ~ 110%，60 min; 110 ～ 125% 10 min; ＞125 ～ 150% 1 min; ＞150%，0.2sec				
Crest Factor	3:1				
Switching Time	0 ms				
Efficiency					
Inverter Mode	95%				
ECO Mode	99%				
Battery					
Voltage	Default: ±192VDC, 360 - 528V (30 - 44 units configurable) with neutral wire				
System					
Display	5" LCD touch screen				
Communication	RS232, RS485, smart card slot				
Environment					
Operating Temperature	0 ~ 40°C (battery life will be shorten when temperature>25°C)				
Humidity	0 ~ 95% (Non-condensing)				
Altitude	1000m no derate，＞1000m derate 1% per 100m				
Noise	≤60dB (A) @ 1m				
Protection Class	IP20				
Physical					
W×D×H(mm)	482.6 × 735 × 130(3U); 482.6 × 580 × 175 (4U)				
Weight(kg)	34 (3U/4U)				

* Specifications subject to change without notice.
* Output 220VAC model Max. power: 20kVA.

Optional parts list

DTH11 Series	1kVA-3kVA	EPO, smart card slot, RS485, dry contact card, SNMP
	6kVA-10kVA	Maintenance switch, RS485, dry contact card, SNMP
DTH11-R Series	1kVA-10kVA	RS485, dry contact card, SNMP
DTH31 Series	10kVA-40kVA	SNMP, parallel communication cable, LBS communication cable
DTH33 Series	10kVA-40kVA	SNMP, dry contact, parallel communication cable, LBS communication cable, battery temperature sensor
DTH33 Series	40kVA-120kVA	SNMP, dry contect, parallel communication cable, LBS communication cable, lightning protection, seismic protection, battery temperature sensor
DTH33 Series	160kVA-200kVA	SNMP, dry contect, parallel communication cable, LBS communication cable, lightning protection, seismic protection, battery temperature sensor
HP-GRL Series	10kVA-30kVA	SNMP, dry contact, parallel communication cable*, LBS communication cable*, battery temperature sensor

* HP-GRL Series Parallel and LBS functions are not supported for the three-phase-in single-phase-out models.

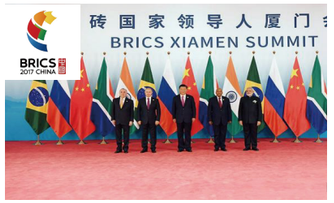
Reference Project



2008 Summer Olympics



The 2010 Asian Games



BRICS Xiamen Summit



BULGARIA INDUSTRIAL&COMMER-CIAL ENERGY STORAGE SYSTEM



FISU World University Games 2023



China-Russia East-Route Natural Gas Pipeline



Afghanistan Oil Field



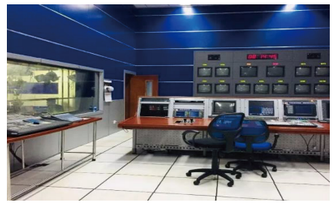
Nigeria Water Pipe Plant



Indonesia Airport Control System



Ecuador Mirador Copper Mine



Laos National Television (LNTV) Channel 3 System Upgrade



Turkmenistan Bagdady Contract Area