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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 brands of China UPS and data center, and currently being present in 48+ 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 brands in China

25+
Years' experience in power conversion and smart energy field

32
Branches nationwide and counting

3
R&D centers

25,000+
Square meters workplace

20+
Industry standards drafting

100+
Researchers

30+
Invention patents

CONTENTS

HIGH FREQUENCY UPS

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

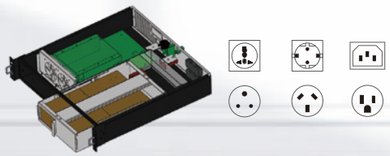
Outstanding Flexibility

- 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

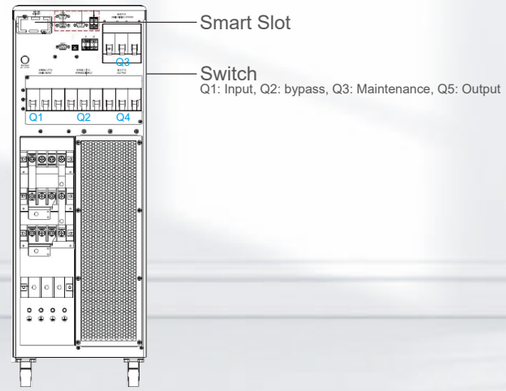
Outstanding Flexibility

- 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.



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

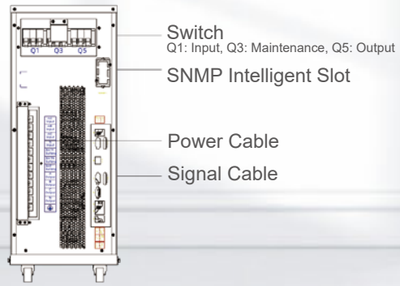
Outstanding Flexibility

- 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）								
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	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

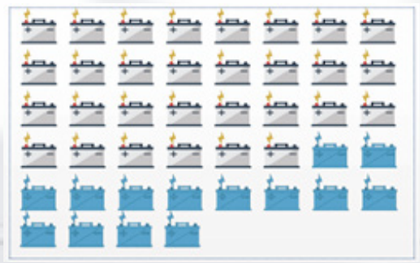
Outstanding Flexibility

- 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

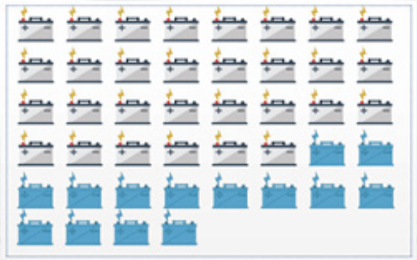
Outstanding Flexibility

- 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

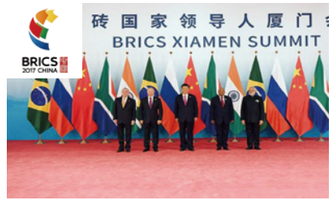
DTH11 Series	1kVA-3kVA	EPO, smart card slot, RS485, dry contact card, SNMP
	6kVA-10kVA	Maintenance switch, RS485, dry contact card, SNMP
DTH11-R Series	1kVA-10kVA	RS485, dry contact card, SNMP
DTH31 Series	10kVA-40kVA	SNMP, parallel communication cable, LBS communication cable
DTH33 Series	10kVA-40kVA	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