

DTH33 Series

Online high frequency UPS

- Self-load test function
- 32 bit high speed DSP
- 30-44 units adjustable battery configuration
- Compatible with lithium battery



Power Range

3 phase in, 3 phase out,
10kVA-200kVA

Application

Computers, data centers, network
device, telecommunication, precision
instrument.

Adjustable Battery Configuration



Performance characteristics

Advanced Technology

- Wide input voltage
- 50/60Hz auto sensing
- Input power factor correction
- 32 bit high speed digital signal processing DSP
- Self-load test function without loads
- N+X parallel function

Outstanding Flexibility

- Adjustable battery numbers: 30-44 units
- Generator compatible
- Comprehensive display for easy monitoring
- Cold start function
- Output isolation transformer as optional

Green Performance

- ECO mode for energy saving
- Input PF ≥ 0.99 @100% load



Performance

Model	DTH33-10KS DTH33-10KL	DTH33-20KS DTH33-20KL	DTH33-30KS DTH33-30KL	DTH33-40KS DTH33-40KL	DTH33-50KS DTH33-50KL	DTH33-60KS DTH33-60KL	DTH33-80KL	DTH33-100KL	DTH33-120KL	DTH33-160KL	DTH33-200KL
Capacity	10kVA	20kVA	30kVA	40kVA	50kVA	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA

Input

Rated Voltage	380Vac (3 phase+N)
Voltage Range	304Vac ~ 478Vac (line voltage) full load ; 304Vac ~ 228Vac (line voltage) load derated linearly from 100% to 80%
Frequency Range	40Hz ~ 70 Hz
Power Factor	≥ 0.99@100% load ; ≥ 0.98@50% load
THDi	< 3% (100% linear load) ; < 5% (100% nonlinear load)

Output

Output Voltage	380/400/415Vac (3phase+N) ;
Voltage Accuracy	±1%@balanced load ; ±5%@unbalanced
THDu	≤2% (100% linear load) ; ≤4% (nonlinear load)
Power Factor	0.9 (1 optional)
Frequency Range	±2Hz (settable) ; ±0.5Hz, ±1Hz, ±3Hz (settable) (Synchronizing Range)
Frequency Range	50 Hz ± 0.1 Hz or 60Hz ± 0.1 Hz (Battery Mode)
Overload	< 105% , long run; < 110% , 60 min; 110 ~ 125% rated load , load 10 min; > 125 ~ 150% rated load , load 1 min; > 150% , 200ms
Crest Factor	3:1(maximum)
Switching Time	0 ms (Main power ⇌ Battery)
	1 ms (phase lock failure, <2ms interrupt occurs) (Inverter ⇌ Bypass)
	<2 ms (Inverter ⇌ ECO)

Efficiency

Inverter Mode	≥95%
ECO Mode	≥99%

Battery

Number	Long backup	32 ; 30 ~ 44 (±15~±22) (settable)			
	Standard backup	(30~60) x7AH/9AH	(60~80) x7AH/9AH	NA	
Charging Current	Capacity* 15%/N/12 (N=±15-22)				
Charging Voltage	± 13.65Vdc * N ± 1% (N=±15-22)				

Physical

Long backup	Size WxDxH(mm)	280 x 685 x 725	425 x 780 x 1200	600 x 800 x 1600	600 x 960 x 1600/2000	600 x 1010 x 2000
	Net Weight(kg)	45	108	230	310	360
Standard backup	Size WxDxH(mm)	400 x 685 x 1000	425 x 780 x 1580	NA		
	Net Weight(kg)	62(w/o battery)	135(w/o battery)	NA		

Environment

Working Temperature	0~ 40°C battery life will be shorten when temperature> 25°C
Relative Humidity	0~95% no condensation
Altitude	1000 meters no derate , > 1000 meters derating 1% for every 100 meters rise
Noise	≤60dB (A)@ 1 meter

Management

Intelligent RS232/RS485	Support Windows® 2000/2003/XP/Vista/2008、Windows® 7/8/10、Linux and MAC
Optional	SNMP/Dry contact

* Specifications are subject to change without prior notice.