

1/1 Phase 1-10KVA  
WTHD High frequency Rack-Mounted UPS

Application area:

Server cabinet、Computer network system、communication system、Other rack and cabinet critical loads



Product description:

The 1-10KVA Online high frequency UPS takes the three-level technique and soft switch design, with the active power factor correction (APFC) to make the input PFC can be higher as 0.99.The new design make our UPS with high energy density ratio, reducethe UPS machine size very much, and also less occupy the space in the server room. The digital control make UPS with much more stable system, and also have the well ability of self-defensive and fault diagnosis.

Product characteristics:



With three-level technology and soft switching design,minimizes to reduce switching losses and creates a new generation of more reliable and efficient power products.



Input powerfactor≥0.99,output power factor up to 1.0,performance with super high load efficiency.



1~3KVA, the maximum efficiency is up to 95.5%.In ECO mode, the efficiency is upto 98.5%,saving energy and electricity for you.



Allmodels of this series can support 1A~12A charging current, and can flexibly configure battery combinations with different capacitances.



Frequency can be setup in 50hz/60hz±10Hz, with wider frequency adjustment range to match the input characteristics of the generator.



Allmodels are designed to comply with standards EN/EC 61000,EN/IEC62040, GB/T7260,GB/T4943,YD/T1095,TLC,which greatly reduces the interference to the power grid

Product Specifications

Model WTHD-U11		C1KR	C1KRS	C2KR	C2KRS	C3KR	C3KRS	C6KRS	C10KRS
Rated capacity (KVA/KW)		1KVA/1KW		2KVA/2KW		3KVA/3KW (72V) 3KVA/2.4KW (48V)		6KVA/6KW	10KVA/10KW
Main Input	Phase	Single Phase Three Wire ( 1L+N+PE )							
	Input Voltage (Vac)	110/120/127/220/230/240							
	Voltage Range (Vac)	High voltage version: 85~300VAC ±5VAC voltage version: 55-145VAC ±3VAC							
	Frequency range (Hz)	50/60HZ±6HZ,±10HZ (setable)							
	Bypass voltage	High voltage version : 115~285VAC×(1±3%) Low voltage version : 80~140VAC×(1±3%)							
	Power factor	≥0.99							
Output	Phase	Single-phase (1L+N+PE)							
	Rated voltage	High voltage version:220/230/240VAC±2% Low voltage version:110/120/127VAC±2%							
	Output frequency	50/60Hz±1%							
	Output waveform	pure sine wave							
	Power Factor	1.0							
	(THDV%)	Sine wave THD <2% (linear load)THD<2% Sine wave THD <4% (nonlinear load)THD<4%						Sine wave THD <2% (linear load) ; Sine wave THD <5% (nonlinear load)	
	Overload capacity	(Line Mode) : 105 ~ 125% 1Min, 125 ~ 150% 30 s , >150% 0.5ms (Battery Mode) : 105 ~ 125% 1Min, 125 ~ 150% 30 s , >150% 0.5ms						(Line Mode) : 102 ~ 105% 30Min, 105 ~ 125% 10Min, 125 ~ 150% 30 s , >150% 500ms (Battery Mode) : 102 ~ 105% 10Min, 105 ~ 125% 1Min, 125 ~ 150% 10 s , >150% 500ms	
	transfer time	Mains <-> Battery mode 0ms							
Efficiency	Mains mode	94.5%		95.5%		95.5%		95.5%	
	battery mode	89.5%		91.5%		91.5%		95.3%	
Battery input	Battery voltage	24V/36VDC	36VDC	48/72VDC	72VDC	48/72VDC	72V/96V	192V/216V/240V(option)	192V/216V/240V(option)
	Battery capacity ×quantity	12V/7AH×2/3pcs	External battery	12V/7AH×4/6pcs	External battery	12V/7AH×4/6pcs	External battery	External battery	External battery
	Charging current	Standard machine (battery built-in ): 1A Long-term machine (external battery): 1~12A: 1~12A)							
Physical parameters	Size (W*H*L)	438x88x385mm	438x88x385mm	438x88x505mm	438x88x385mm	438x88x505mm	438x88x385mm	438x88x385mm	438x88x385mm
	Weight (kg)	10.4/12.4	5.8	14.9/23.6	7	20.5/25.2	7.4	9.5	10.25
Communication and monitoring functions		RS232, Network monitoring card, dry contact, MODBUS monitoring card, optional							
Certification		EN/IEC 61000,EN/IEC 62040,GB/T4943.YD/T1095,TLC							