

FusionPower Series

(UPS5000-H)

Introduction

UPS5000-H is Huawei's medium and large-scale uninterruptible power supply system with advanced 100kVA/3U hot swappable power modules. The system achieves 1 MW,1 rack, effectively saves footprint and installation time. System efficiency is up to 97%. Intelligent iPower improves system reliability and simplifies operation and maintenance for customers. The super ECO mode achieves not only high efficiency and optimal power quality but also non-interruptible mode transferring.

Power Module: 100kVA/3U

Application Scenarios

- Data centers in headquarter or disaster recovery data centers
- · Internet data centers
- · Large cloud computing data centers
- · Critical power supply

Features & Value

Simple

- Hot swappable power module, bypass module and control module simplify maintenance and expansion in 5 minutes
- Top busway prefabricated design, reducing on-site installation time UPS5000-H-400/500/600kVA by 60%

UPS5000-H-800kVA

Green

- 1 MW, 1 rack, saving the footprint by 50%
- Online mode: 97% system efficiency, high efficiency at light-load Super ECO mode: 99% system efficiency, saving 140,000\$ in lifetime
- Super ECO mode active filtering, optimal power quality

Smart

- · iPower pre-warnings for key components by AI method
- Joint operating of main and battery achieves intelligent peak shaving, eliminating the reconstruction of grid.

Reliable

- · Redundant architecture eliminates single point of failure
- Super ECO: non-interruptible mode transferring.
- Al temperature prediction, eliminate the over temperature risk in light load



UPS5000-H-1200kVA



UPS5000-H-1600kVA

Specifications

	Model	UPS5000H-400/500/600k	UPS5000-H-800k	UP\$5000-H-1200k	UP\$5000-H-1600k	
Capacity	Rack Capacity	400/500/600kVA(380/400/415/4 80Vac) 200/250/300kVA(200/208/210Va c)	800kVA	1200kVA	1600kVA	
	Module number	2-4/2-5/2-6	2-8	2-12	2-16	
Mains Input	Input Wiring	3Ph+N+PE				
	Rated Voltage	200/208/210/380/400/415/480Va c	380/400/415/480Vac		380/400/415Vac	
	Voltage Range	380/400/415V: 138-485Vac (100% load: 323-485V) 200/208/210V: 139-260Vac (100% load: 170-260V) 480V: 192-528Vac (100% load: 409-528V) 380/400/415V: 138-485Vac (100% 323-485V)			185Vac (100% load:	
	Frequency Range	40-70Hz				
	Total Harmonic Distortion	Normal mode: THDi<3% for 100% linear load Super ECO mode: THDi<3% for 100% linear load				
	Input Power Factor	Normal mode: 0.99; Super ECO mode: 0.99				
Bypass Input	Input Wiring	3Ph+N+PE				
	Rated Voltage	200/208/210/380/400/415/480Va c 380/400/415/480Vac			380/400/415Vac	
	Input Frequency	50/60±6Hz				
Battery	Rated Voltage	200/208/210Vac: 180-600Vdc (The number of VRLA can be selected from 15 to 50; 20 batteries rated, no battery neutral, support odd battery number); 380/400/415/480Vac: 360-600Vdc (The number of VRLA can be selected from 30 to 50; 40 batteries rated, no battery neutral, support odd battery number); 512Vdc(Huawei SmartLi)				
	Maximum charge capacity and current	Single power module: 15kW, 30A				
	Battery Category	Huawei SmartLi, VRLA				
	Battery sharing	Support(VRLA)				
Output	Output Wiring	3Ph+N+PE				
	Voltage	200/208/210/380/400/415/480Va c±1% 380/400/415/480Vac±1%			380/400/415Vac ±1%	
	Frequency	Tracking the bypass input (Normal mode); 50/60Hz±0.25% (Battery mode)				
	THDv	THDv<1% for linear load				
	Overload Capacity	Inverter: 100% < load≤110% for 60 minutes, then transfer to bypass mode; 110% < load≤125% for 10 minutes, then transfer to bypass mode; 125% < load≤150% for 1 minute, then transfer to bypass mode				
System	Output Power Factor	1				
	Efficiency	Normal mode: Up to 97% Super ECO mode: Up to 99%				
	Joint power supply	Support main input and battery joint operating				
	Parallel	4	4	3	1	
Environment	Operating Temperature	0-40°C				
	Storage Temperature	-40-70℃				
	Relative Humidity	0%-95% (No condensing)				
	Operating Altitude	0-1000m. Above 1000m, derating based on EN/IEC 62040-3				
Others	Weight	580/690/800kg	1300kg	1500kg	1900kg	
	Height*Width*Depth(mm)	2200*800*1000	2200*1600*1000	2200*1600*1000	2200*2400*1000	
	Standards and certifications Communications ports and protocol	Standards: EN/IEC 62040-1, EN/IEC 62040-2, EN/IEC 62040-3 Certifications: CE; CB; RoHS, REACH, WEEE, etc. Communications ports: Dry contacts, RS485, FE Communications protocol: Web, Modbus and SNMP				
	protocol	Continuations protocol. Web, inicubus and Shivip				

Note: Tier4 or Tier3 levels specified in Tl942 are required, that two UPSs form a dual bus or a UPS and utility form dual bus for important systems related to major economy or public safety, such as civil aviation management centers, financial liquidation centers and trading centers, etc.