

# UPS5000-E Series

## (40-800kVA)

### Introduction

---

UPS5000-E Series (40-800VA) is an advanced modular UPS based on Huawei's extensive experience in digital technology and power electronics. Benefiting from high performance DSP and high speed communication technology, the UPS5000-E system achieves leading expandability and availability. Its high efficiency, high availability match the requirements of cloud data center perfectly.

### Scenarios

---

- Data centers in headquarter or disaster recovery data centers
- Internet data centers
- Large cloud computing data centers

### Features

---

#### High Availability

- Centralized bypass design and high-speed communication technology boost expandability, which enables flexible capacity expansion as your business requires and avoids overinvestment
- All modular design: all of power modules, bypass module and energy control module support hot swap, which maximizes the availability and facilitates maintenance and fault clearance greatly
- Comprehensive communication and control unit redundancy improves system reliability

#### Low Power Consumption

- At online mode, a 96% system efficiency is achieved and UPS5000-E keeps high efficiency above 95% at the most common used load rate(20%-40% rated load), which reduces power consumption and operating expense greatly

#### Intelligent Battery Management

- Flexible battery configuration: 30-40 batteries per string allow customers to get the faulty battery out instead of replacing it
- Intelligent battery management and battery hibernation technology extend battery lifespan by 50%



UPS5000-E-480K-F480



UPS5000-E-800K-F800

## Specifications

Model		UPS5000-E-120K-F120	UPS5000-E-200K-F200	UPS5000-E-320K-F320	UPS5000-E-480K-F480	UPS5000-E-600K-F600	UPS5000-E-800K-F800
Rated Capacity (kVA/kW)		40-120	40-200	40-320	40-480	40-600	40-800
Number of Power Modules		1-3	1-5	1-8	1-12	1-15	1-20
Mains Input	Input Wiring	3Ph+N+PE					
	Rated Voltage	380/400/415Vac					
	Voltage Range	138-485 Vac (305-485 Vac for 100% load; 138-305 Vac for 40%-100% load)					
	Frequency Range	40-70 Hz					
	Total Harmonic Distortion	THDi<3% for 100% linear load					
	Input Power Factor	0.99					
Bypass Input	Rated Voltage	380/400/415 Vac					
	Input Frequency	50/60±6 Hz					
Battery	Rated Voltage	360-480 Vdc (The number of batteries can be selected from 30 to 40; 32 batteries in default)					
Output	Output Wiring	3Ph+N+PE					
	Voltage	380/400/415 Vac±1%					
	Frequency	Tracking the bypass input (Online mode); 50/60 Hz±0.1% (Battery mode)					
	Waveform	Sine wave (THDv<1% for linear load)					
	Overload Capacity	Inverter: 110% overload for 60 minutes; 125% overload for 10 minutes; 150% overload for 1 minute Bypass: 135% overload for long term; >1000% overload for 100 ms					
System	Output Power Factor	1					
	Efficiency	96%					
	Expandability	Up to 4 units connected in parallel					
	Cable Entry Route	From the top or from the bottom					
Environment	Operating Temperature	0-40°C					
	Storage Temperature	-40-70°C					
	Relative Humidity	0%-95% (No condensing)					
	Operating Altitude	1000 m. Above 1000 m, derating 1% for each additional 100 m					
	Audible Noise	< 65dB		< 68dB		<70dB	
Others	Height×Width×Depth (mm)	2000×600×850			2000×1200×850	2000×2000×850	2000×2400×850
	Weight	227-293 kg	227-359 kg	253-480 kg	693-1050 kg	1045-1500 kg	1185-1800 kg
	Certifications	EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc.					
	Communications	Dry contacts, RS485, SNMP					