

UPS5000-S Series

(50-800kVA)

Introduction

UPS5000-S Series (50kVA Power Module) 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-S 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

Reliable

- 138-485Vac ultra-wide input voltage range, suitable for the worst power grid
- Redundant design for modules, elimination of the single point of failure
- iPower pre-warnings for key components in case of power supply interruption

Efficient

- High module efficiency up to 97.5% and system efficiency up to 96%-97% at most frequently-used load rate
- Intelligent hibernation technology ensures efficient UPS operation
- Single cabinet power capacity up to 600kVA, 50% footprint saving, more IT rack space

Simple

- Hot swappable power module, bypass module and control module, simple maintenance and expansion in 5 minutes
- iPower real time monitoring system for UPS, PDU and batteries, elimination of manual routing inspection



Power Module: 50kVA/3U & 97.5% efficiency



UPS5000-S-200kVA



UPS5000-S-200/300kVA



UPS5000-S-400/500kVA



UPS5000-S-600kVA



UPS5000-S-800kVA

Specifications

| Model | | UPS5000-S-200K | UPS5000-S-300K | UPS5000-S-400K | UPS5000-S-500K | UPS5000-S-600K | UPS5000-S-800K |
|-------------------------|---------------------------|--|----------------|-------------------|----------------|-------------------|-------------------|
| Rated Capacity (kVA/kW) | | 50-200 | 50-300 | 50-400 | 50-500 | 50-600 | 50-800 |
| Number of Power Modules | | 1-4 | 1-6 | 1-8 | 1-10 | 1-12 | 1-16 |
| Mains Input | Input Wiring | 3Ph+PE (Neutral wire: optional) | | | | | |
| | Rated Voltage | 380/400/415Vac | | | | | |
| | Voltage Range | 138-485Vac (305-485Vac for 100% load; 138-305Vac for 40%-100% load) | | | | | |
| | Frequency Range | 40-70Hz | | | | | |
| | Total Harmonic Distortion | THDi<3% for 100% linear load | | | | | |
| | Input Power Factor | 0.99 | | | | | |
| Bypass Input | Input Wiring | 3Ph+N+PE | | | | | |
| | Rated Voltage | 380/400/415Vac | | | | | |
| | Input Frequency | 50/60±6Hz | | | | | |
| Battery | Rated Voltage | 384-600Vdc (The number of batteries can be selected from 32 to 50; 40 batteries in default) | | | | | |
| Output | Output Wiring | 3Ph+N+PE | | | | | |
| | Voltage | 380/400/415Vac±1% | | | | | |
| | Frequency | Tracking the bypass input (Normal mode); 50/60Hz±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 | | | | | |
| System | Output Power Factor | 1 | | | | | |
| | Efficiency | Up to 97.1% | | | | | |
| | Expandability | 8 | | | | | |
| Environment | Operating Temperature | 0-40°C | | | | | |
| | Storage Temperature | -40 to 70°C | | | | | |
| | Relative Humidity | 0%-95% (No condensing) | | | | | |
| | Operating Altitude | 0-1000m. Above 1000m, derating rate based on EN/IEC 62040-3 | | | | | |
| | Audible Noise | 66-75dB | | | | | |
| Others | Height×Width×Depth(mm) | 2000 × 600 × 850 | | 2000 × 1200 × 850 | | 2000 × 1400 × 850 | 2000 × 2400 × 850 |
| | Weight | 225-354kg | 251-416kg | 462-693kg | 648-945kg | 709-1072kg | 1061-1556kg |
| | Certifications | EN/IEC 62040-1; EN/IEC 62040-2; EN/IEC 62040-3; CE; CB; RoHS, REACH, WEEE, etc. | | | | | |
| | Communications | Dry contacts, RS485, SNMP | | | | | |

Copyright © Huawei Technologies Co., Ltd. 2016. All rights reserved.

No part of this document may be reproduced or transmitted in any form or by any means without prior written consent of Huawei Technologies Co., Ltd.

General Disclaimer

The information in this document may contain predictive statements including, without limitation, statements regarding the future financial and operating results, future product portfolio, new technology, etc. There are a number of factors that could cause actual results and developments to differ materially from those expressed or implied in the predictive statements. Therefore, such information is provided for reference purpose only and constitutes neither an offer nor an acceptance. Huawei may change the information at any time without notice.

HUAWEI TECHNOLOGIES CO., LTD.

Huawei Industrial Base
Bantian Longgang
Shenzhen 518129, P.R. China
Tel: +86-755-28780808

www.huawei.com