

48V Indoor Cabinet DC power up to 81kW



Features

- High efficiency, energy-saving, green DC power.
 Digitalized control
- Digitalized Primary and secondary controls could realize excellent monitoring and regulation.
- Ethernet interface built-in
- High reliability design
- Advanced battery management capacity Battery asymmetry control
- Excellent EMC performance
- Lower interference and excellent susceptibility give module better reliability
- Global approvals
 CE marked, UL recognized and TUV certified for worldwide application.

Introduction

SPS 48/600 2900 cabinetized power supply system is designed to meet higher power efficiency and versatile technical requirement. Compact structure, full integrated functions of rectifier and system make SPS 48/600 2900 typical applications are providing 48V standby power for central data center and wireless transmission center.

Intelligient system management features include battery temperature compensation, fast charge, battery current limit, automatic equalize charging and automatic battery condition monitoring. With a compact power and distribution design, the system provides a maximum flexibility with a variety of possibilities.

Applications

- Wireless, Wireline communication
- Broadband and network access
- Data center access
- 3G center base station
- Transmission center station

DC Power
 AC Power
 Embedded Power
 Outdoor Power
 High Voltage Variable Frequency Drives (VFD)

Centralized monitoring and management system
 Power Distribution
 Services
 Electronic Air Cleaner



Technical Specifications

Input

AC Supply	1/2/3P+N+PE,
	Nominal 220/230/380/400/415VAC
Frequency	45~65Hz
Power Factor	0.99
Voltage wave distortion	<5%
Current Distortion	≤10% @50~100% load
AC Distribution	AC Input:
	2*100A/3P MCBs, manual switch
	AC Output:
	12*25A/1P MCBs for each
	rectifiers.
Output	
Output voltage	-48VDC (42-57.6VDC adjustable)
Output current	1500A ultimate capacity
Voltage regulation	≤±1%
Current Sharing	≤±5%
Efficiency	≥94% rated, 95% in maximum
Ripple and Noise	≤200mV P-Peak
Psophometric noise	≤2mV rms
Options	
DC distribution	6*(63-125A) MCBs
	9*(1-63A) MCBs
	3*(20-200A) HRC Fuses

Custom options available

Low Voltage Disconnect	Single or multiple LVD configured
	as battery disconnect
Output Protection	Over/under voltage shutdown
	Short circuit proof
	High temperature protection
Rectifier	Smart Power I 48/2900

Monitoring and Control

System Controller	DKD41
Local operation	Menu driven software via keypads
	and LCD or PC
Remote operation	Modem/On-board web server/
	SNMP
Alarms Relays	8 relays
Digital inputs	9 options (for external equipment
	and battery)

Other Specifications

Operating temp	-40 to +75°C (-40 to +167°F)
Storage temp	-40 to +85°C (-40 to +185°F)
Humidity	Operating: ≤95% non-condensing;
	Storage: ≤99% non-condensing
Dimensions	600W x 600 D x 2000 H (mm)
Weight	85 kg without rectifier



48V Indoor Cabinet DC power up to 32.4kW





Features

- Wide AC input voltage range, 90V~300V.
- High reliability with autonomous current-sharing technique.
- High power density, lower electromagnet interference and high efficiency
- Hot-plug andsmart fan cooling rectifier modules.
- Small size, lightweight and easy to use due to modular and block designed structure.
- Intelligent battery management including temperature compensation.
- Efficient alarm and protection measures

Introduction

DUM series cabinetized power supply system is designed to meet higher capacity and versatile technical requirement. DUM-48/30H&50H could be used in a wide variety of 48VDC applications across the globe.

The system could house up to 12 nos. DZY (30H & 50H) series rectifiers. With a compact power and distribution design, the system provides a maximum flexibility with a variety of possibilities.

DC Power
 AC Power
 Embedded Power
 Outdoor Power
 High Voltage Variable Frequency Drives (VFD)

- Centralized monitoring and management system
 Power Distribution
 Services
- Electronic Air Cleaner

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Applications

- Wireless, Wireline communication
- Broadband and network access
- Satellite communication ground station
- 3G base station Data center



Technical Specifications

AC Supply	1/2/3P+N+PE,
	Nominal 220/230/380/400/415VAC
Frequency	45~65Hz
Power Factor	0.99
Current Distortion	≤10%@50~100% load
AC Distribution	AC Input:
	1*63A/3P MCB
	Optional:
	2*63A/3P MCBs, manual/automatic
	switch
	Individual MCBs for each rectifiers
Output	
Output voltage	-48VDC (42-57.6VDC adjustable)
Output current	600A ultimate capacity
Voltage regulation	≤±1%
Current Sharing	≤±5%
Efficiency	≥92% rated, 95% in maximum
Ripple and Noise	≤200mV P-Peak
Psophometric noise	≤2mV rms
Options	
DC distribution	6*(63-125A) MCBs
	9*(1-63A) MCBs
	3*(20-200A) HRC Fuses
	Custom options available
Low Voltage Disconn	
	Single or multiple LVD configured as
	battery disconnect
Output Protection	Over/under voltage shutdown
	Short circuit proof

High temperature protection

DZY-48/30H,DZY-48/50H(1)

Monitoring and Control

System Controller	DKD31
Local operation	Menu driven software via keypads and
	LCD or PC
Communications	RS232
Alarms Relays	8 relays
Digital inputs	9 options (for external equipment and
	battery)

Other Specifications

Operating temp	-5 to +55°C
Storage temp	-40 to +70°C
Humidity	Operating: ≤95% non-condensing;
	Storage: ≤99% non-condensing
Dimensions	600W x 600 D x 2000 H (mm)
	450W x 400 D x 1600 H (mm) optional
Weight	100 kg without rectifier

Rectifier