

# SCU UPS

## Genius 6000

### Micro Data Center



#### Overview

Genius 6000 integrates rack, power, cooling, and environment monitoring for a complete server room solution. It is a fully integrated, industry-leading plug-and-play solution with a ready to use IT rack space. The standard and modular server room architecture dramatically reduces time and complexity from concept and design up to installation. Complete physical infrastructure delivers high availability, efficiency and low Total Cost of Ownership.

#### Features and benefits

**Fully integrated** - complete physical infrastructure, factory assembled and testing

**Fast deployment** - ready to use from one day, simple installation and configuration reduces time to deploy

**Small foot print** - 0.72sqm foot print, suitable for office environment, no need of separate server room

**Dust protection, noise insulation** - fully closed operation, cold/hot air is circulated within the rack, low noise level.

**Integrated monitor** - energy usage monitoring, remote monitoring and automation of your server room

**Energy saving** - inbuilt air-conditioning accurately controls temperature inside the cabinet, small energy consumption



### 1. Standard rack cabinet

- Standard structure, available space for rack-mounted IT equipment
- Totally enclosed design. Noise reduction, sound insulation, dust-proof
- Circular air course for cold air from air conditioner, achieving closed heat dissipation
- Emergency fans automatically run during power outages ensuring continuous cooling

### 2. UPS

- Two available options: ERMS-12 modular UPS, or DSP-6KVA rack mount UPS
- provide pure uninterruptable power supply to critical IT equipment
- When AC power off, battery provide backup time to load
- Shutdown servers according to load priority

### 3. Precision Air Conditioning

- 4.5KW cooling capacity, Split type: 5U, Integral type: 10U
- frequency conversion technology, microcomputer temperature control
- refrigeration, dehumidification, air supply and dust elimination
- R134 compressor, high performance, industrial fan
- Dual safety condensed water collecting device

### 4. lithium battery pack

- High-rate, power type, lithium batteries
- Discharge capacity of 3.7C, adapt to various load
- Battery Management System (BMS) with functions of battery status monitoring and estimated battery remaining, charging and discharging control, balancing and so on

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### 5. Power management & PDU

- Power management breakers for power, cooling, lighting; inbuilt SPD
- PDU: PDU distribute power to IT equipment

### 6. Environment monitoring

- Detect temperature, humidity, access control, water cut and smoke inside the cabinet
- Carry out alarm and fault treatment timely



### 7. Integrated monitoring

- User friendly colorful touch screen
- Real time monitoring and display of environmental and operation parameters
- Alarm management, local alarm, network alarm and self-protection
- SNMP V1/V2 protocol; RJ45 interface

### Traditional Server Room vs. Genius 6000

	Traditional Server Room	Genius 6000
Room preparation	Required and complex	Not required
Design and construction	Multi-vendor , Time-consuming	Factory designed and pre-configured
Power distribution	Require wall mounted DB box	Build in system
Cost of preparation	High	Low
Install period	2-3 weeks	1 day
Area required	10 - 20sqm	0.72sqm
Dust prevention	Usually not available, high cost	Fully enclosed system
Noise level	High noise	Low noise, suitable for office
Monitoring system	Individual systems Low capability Low integration	Fully Integrated system Factory Installed / Connected / Tested
Relocation cost	High, Difficult	Low, Easy

## TECHNICAL SPECIFICATION

model		Genius 6000	
cabinet	Dimension (mm)	600(W)*1200(D)*1800(H)	
	Available space	38U	
	Server space	24U-30U	
	Area	0.72m2	
	Color	RAL7047	
	IP degree	IP30	
UPS	Model	ERMS-12	DSP11-6KVA
	Type	Embedded modular UPS	Rack mount UPS
	Rated power	6KVA+6KVA	6KVA
	AC Input	220V/3Ph/50Hz	220V/1Ph/50Hz
	Input PF	0.99	0.99
	DC input	±240VDC	240VDC
	Output	220V/1Ph/50Hz	220V/1Ph/50Hz
	Output PF	0.9	0.9
	Efficiency	95%	93%
	Acoustic noise (dB)	<55	<55
Battery	Backup time	10min	10min
	Rate voltage	±240VDC	240VDC
	Discharge temperature	-20~+60°C	
	Max discharge current	25A	
	Storage temperature	-20~+60°C	
	Discharge time	≥300 times(60%)	
Cooling	Air conditioning type	Split type	Integral type
	Cooling capacity (W)	4500	4500
	Rated power (W)	1250	2000
	internal circulation air (m³/h)	830	1200
	external circulation air (m³/h)	1200	2000
	Refrigerant	R407C	R407C
	outdoor unit noise (dB)	70	--
	indoor unit noise (dB)	<65	<65
Environment monitoring	Temperature sensor	-40° to +125°C, ±2°C	
	Humidity sensor	0~100%	
	Water leak detection	Water Leakage electrode detection	
	Door access sensor	limit switch	
	Smoke detection	combustible gas, smoke	
Integrated monitoring	LCD	colourful touch screen	
	Communication	SNMP V1/V2 protocol; RJ45 interface	