

ERMS Series Modular UPS

Truly modular UPS Full UPS functioned UPS Module

Modular, hot-swappable, field-replaceable Monitor, UPS module
Embedded modular power protection with ultra high availability and efficiency for Small Data Center.

Scalable from 6 kVA to 36 kVA. Wire in/out mode: 3/3, 3/1, 1/3, 1/1

SYSTEM OVERVIEW

ERMS series UPS is an embedded modular UPS of low and medium power developed by SCU. With flexible structure, it could be embedded in standard 19 inch cabinet or work independently for de-centralized power supply.

It features superb input and output performance indexes. As a product with the smallest size, the highest efficiency and the greatest power density in the industry, it boasts an extremely high cost-efficiency.





ERMS FEATURES

- Rational redundant structure
UPS module: 6KVA; System: 12 KVA, 24 KVA, 36 KVA
- Great performance index
overall efficiency $\geq 95\%$ (AC-AC), inverter efficiency $\geq 98\%$ (DC-AC), THDI $\leq 3\%$, and input PF ≥ 0.99
- N+X module-level redundancy UPS System
- Multi-level decentralized control technology and Master-slave synchronization in sequency control eliminating system failure bottleneck
- Each module automatically equally shares the input and output current, All UPS modules share the batteries
- Battery management:
Battery discharge management, auto-transfer between floating and equal charging, temperature compensation
- Monitor Function
C/S-Oriented Architecture Software which is available to monitor multiple UPS up to 600 sets;
B/S-Oriented Architecture which is available to check via internet browser
- Standard configuration
Manual bypass, RS232, RS485, dry contacts, TCP/IP Adapter for local and remote communication.
- Optional configuration
Input/output Transformer, Battery IPDS (Intelligent Power Distribution System)

ERMS Series Modular UPS



ERMS-12

12KVA, 2module rack
3U(H)*600(D)*19"(W)



ERMS-24

24KVA, 4module rack
5U(H)*600(D)*19"(W)



ERMS-36

36KVA, 6module rack
7U(H)*600(D)*19"(W)



ERM-06

Rated power: 6KVA
Complete UPS functions: AC/DC, DC/AC, charger and control circuit.
Module Dimensions: 200*500*85 (W*D*H) mm



ERMS-CSU

User friendly LCD display.
Functions include displaying, communication, alarming and managements.

UPS MODULE TECHNICAL SPECIFICATION

Model	ERM-06
Capacity	6KVA
Input/Output mode	3/1,1/1
Input PF	≥ 0,99
THDI (%)	≤ 3%
Overload ability	Comply to system overload requirement
Charging power	1A
Weight (kg)	7Kg

UPS SYSTEM TECHNICAL SPECIFICATION

System model		ERMS-12/6	ERMS-24/6	ERMS-36/6
Maximum power		12KVA	24KVA	36KVA
UPS module model		ERM-06		
Mains Input	Input mode	3-phase +N +E /1-phase +N +E		
	Input voltage	380V/220V±20%, 400V/230V±20%, 415V/240V±20%		
	Input frequency	50Hz±10%, 60Hz±10%		
	Power woke-in (Sec.)	60secs		
	THDI (%)	< 3%		
	Input PF	≥ 0,99		
Bypass Input	Input voltage	380V/220V±20%, 400V/230V±20%, 415V/240V±20%		
	Input frequency	50 Hz, 60 Hz		
	Range of Frequency Synchro	50Hz±4%, 60Hz±4%		
DC Input	Rated Input voltage	±192VDC, ±216VDC, ±240VDC		
	Input voltage tolerance	±168V~±227VDC, ±189V~±256VDC, ±210V~±284VDC		
Battery charging	Charging current limited	yes		
	Charging ability	10 hours (2 hours back up)		
	Stability of charging voltage	±1%		
AC output	UPS power factor	0.9		
	Output voltage	220,230,240VAC	380/220,400/230,415/240VAC	
	Output frequency	±4%; ±0.2%(battery supply)		
	Output voltage stability	±1%		
	Output voltage recovering time	20ms (load 0~100% change)		
	Overload ability	Operate 10mins with 125% load		
	Transfer from mains to battery supply	0ms		
	Transfer from bypass to inverter supply	<1ms		
	Peak factor	3:1		
	Waveform distortion	≤ 1% (linear load), ≤ 3%(non-linear load)		
	Overall efficiency	≥ 94% (AC~AC), ≥ 93% (DC~AC)		
	Load share precision	≤5%		
	Operation environment	Ambient temperature	-25 C ~ 60 C	
Operating temperature		-5 C ~ 40 C		
Maximum operation altitude		≤ 1500m		
Relative humidity		≤ 95% non-cadency		
Protection degree		IP30		
Cooling		Air cooling		
Applicable safety standards		EN62040-1-1:2003 IEC60950-1:2001		
Electromagnetic compatibility		EN62040-2:2006		
Acoustic noise		≤ 55DB		
Others	Cabinet	Embedded in standard 19 inch cabinet		
	Monitor management system	UPSupervisor		
	Interface	RS232, RS485, 2 dry contact, TCP/IP adapter		
	Display	LCD/LED		
	Dimension (mm)	480(W)*600(D)*133(H)	480(W)*600(D)*222(H)	480(W)*600(D)*311(H)
	Weight (kg)	12	16	20