

# 6KVA . 10KVA ONLINE RACK UPS



## CHAMP RM SERIES

### High Flexibility Online UPS Solutions

Champ Series is the high power density double-conversion online UPS with an output power factor of 0.9. It's designed in a small cabinet with a microprocessor controller.

Champ Series also has USB and RS-232 communication ports as standard, with a built-in intelligent slot for additional adapters, protocol converters, and related contact cards.



Pure sine wave



Generator  
Compatible



Server room



Long  
Autonomy

### GENERAL FEATURES

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction  $\geq 0.99$
- Output power factor 0.9
- Wide input voltage (130 V - 280 V)
- Converter mode available
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together display allows easy monitoring and access of UPS status
- Adjustable battery numbers 18, 19, 20 pcs.



FORTRON/SOURCE



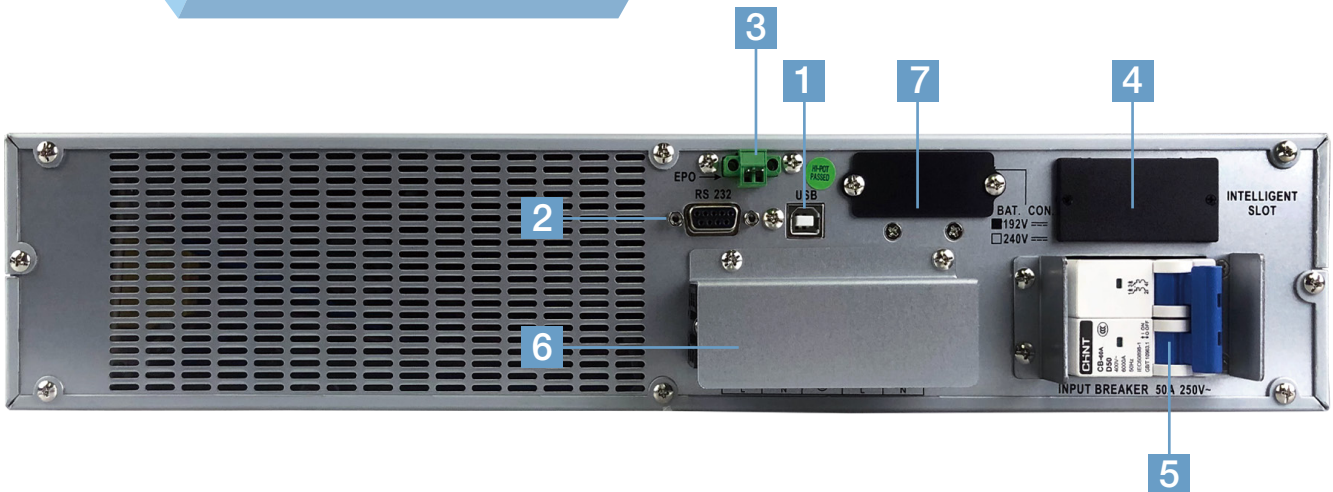
### TECHNICAL SPECIFICATIONS

MODEL	Champ RM 6KL	Champ RM 10KL	
PHASE	Single phase with ground		
CAPACITY	6000 VA / 5400 W	10000 VA / 9000 W	
INPUT	208/220/230/240VAC		
Nominal Voltage	208/220/230/240VAC		
Voltage Range	110-300 VAC $\pm$ 3% at 50% Load 176-300 VAC $\pm$ 3% at 100% Load		
Frequency Range	46~54 Hz or 56~64 Hz		
Power Factor	$\geq$ 0.99 @ Nominal Voltage (100% Last)		
OUTPUT	208/220/230/240 VAC		
Nominal Voltage	208/220/230/240 VAC		
AC Voltage Regulation	$\pm$ 1%		
Frequency Range(Synchronized Range)	46~54 Hz or 56~64 Hz		
Frequency Range(Batt. Mode)	50 Hz or 60Hz $\pm$ 0.1 Hz		
Current Crest Ratio	3:1		
Harmonic Distortion	$\leq$ 3 % THD (Linear Load), $\leq$ 5 % THD (Non-linear Load)		
Transfer Time	AC mode to Battery mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
Line Mode	92%	93%	
Battery Mode	90%	91%	
BATTERY			
Standard Model	Battery Type		
	Numbers		
	Typical Recharge Time	N/A	
	Charging Current (max.)		
Long-run Model	Charging Voltage		
	Battery Type	Depending on the capacity of external batteries	
	Numbers in string	16-20pcs (Adjustable)	
	Charging Current (max.)	1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batteries)	
	Charging Voltage	218.4 VDC $\pm$ 1% (Based on 16pcs batteries)	
INDICATORS	Last level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators		
LCD Display			
ALARM			
Battery Mode	Sounding every 4 seconds		
Low Battery	Sounding every second		
Overload	Sounding twice every second		
Fault	Continuously sounding		
AC INPUT & OUTPUT CONNECTORS			
AC Input Connector	Terminal block		
AC Output Connector	Terminal block		
STANDARDS	IEC 62040-1 (safety) / IEC-62040-2 (EMC) / CE		
Safety / EMC			
PHYSICAL			
Standard Model	Dimension, D x W x H (mm)	N/A	N/A
	Net Weight (kgs)	N/A	N/A
Long-run Model	Dimension, D x W x H (mm)	UPS Unit: 530x438x88 [2U] Battery Pack: 668x438x88 [2U]	580 x 438 x 133[3U]
	Net Weight (kgs)	UPS Unit: 15 Battery Pack:48	18
ENVIRONMENT	0-95% RH @ 0-40°C (non-condensing)		
Operation Humidity			
Noise Level	Less than 50 dBA @ 1 Meter	Less than 58 dBA @ 1 Mete	
MANAGEMENT	Supports Windows 2000/2003/XP/Vista/2008/7, Linux and MAC		
Smart RS-232 / USB			
Optional SNMP	Power management from SNMP manager and web browser		

\*1K-3K: Derate to 80% of capacity in Frequency converter mode or when the output voltage is adjusted to 208VAC.  
6K/10K: Derate to 60% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 208VAC.  
Product specifications are subject to change without further notice

#### Backup Time Table for Champ Series

Model	Battery Bank	Backup Time with Load (Min)			
		25%	50%	75%	100%
Champ RM 6KL	BB-192/09RT(16pcs 9Ah)	40	15	9	6
	BB-240/10RT(20pcs 10Ah)	68	27	18	12
Champ RM 6KL	BB-192/09RT(16pcs 9Ah)	21	8	4	2
	BB-240/10RT(20pcs 10Ah)	40	16	9	6



- 1 USB interface
- 2 RS-232 interface
- 3 Emergency stop (EPO)
- 4 Intelligent slot for SNMP / AS400 / RS485-Modbus
- 5 Input protector.
- 6 Terminal cover.
- 7 External battery connector

### Contents in package

- Battery cabel
- Viewpower CD
- USB cable
- User Manual



### Saving recharging time

Saving recharging time by adjustable current 1,2,4,6A



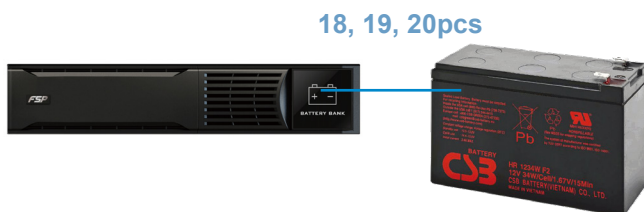
### Easy Maintenance

External maintenance bypass to shorten maintenance time and secure operation safety.



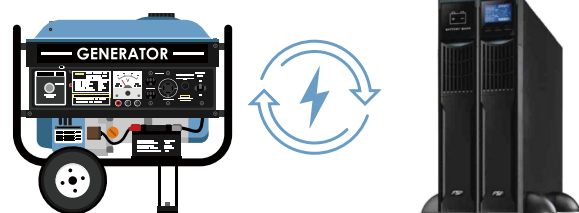
### High Flexibility for Your Project Budget



Compatible with the battery up to 100Ah, maximum 6 external cabinets. Each cabinet is with adjustable 16-20pcs battery. It flexibly adapts your project budget and backup time.



### Generator compatible

Connecting with generator for building emergency situation.



Battery Cabinet				
Model	P/N	Pictures	Compatible Champ RM Series Model	Battery
BB-192/09RT	MPF0011800GP		Champ RM 6KL Champ RM 10KL	Battery bank with 16 pcs 9Ah battery
BB-240/10RT	MPF0011801GP		Champ RM 6KL Champ RM 10KL	Battery bank with 18,19,20 pcs 10Ah battery. Contact FSP local authorized partner for battery adjustment

Network Management				
SNMP card SNMP box	MPF0000400GP 31-011163-07G		<ol style="list-style-type: none"> <li>1. Allows control and monitoring of UPS</li> <li>2. Real-time dynamic graphs of UPS data</li> <li>3. Warning notifications via audible alarm, broadcast, mobile messenger, e-mail</li> </ol>	
Modbus card	S98-000051-07091G		<ol style="list-style-type: none"> <li>1. Real-time control and monitoring of UPS</li> <li>2. Supports Modbus RTU protocol</li> <li>3. Provides MODBUS functions including read Holding Registers and write Registers</li> <li>4. Provides surge protection</li> </ol>	
Relay card	MPF0007500GP		<ol style="list-style-type: none"> <li>1. The AS400 communication card provides contact closures for remote monitoring UPS.</li> <li>2. To meet different application requirement, the AS400 card is capable of selection the status of the dry-contact signal (active close or active open) by setting jumper.</li> </ol>	
Environment Monitor Device	98-000069-00G		<ol style="list-style-type: none"> <li>1. Measure temperatures between 0 to 100°C with an accuracy of <math>\pm 1.5^{\circ}\text{C}</math></li> <li>2. Measure relative humidity between 10 to 90% RH with an accuracy of <math>\pm 3\%</math> Optional smoke alarm available</li> </ol>	
EPO cable	5370-1000-0011		<ol style="list-style-type: none"> <li>1. Cable to connect emergency power off port.</li> </ol>	
Battery cable	10-112480-00G		<ol style="list-style-type: none"> <li>1. Cable to connect UPS and external battery cabinet.</li> </ol>	