

# RP 1KVA - 3KVA

## High Frequency Online UPS Rack Tower Convertible

RP Series 1KVA - 3KVA (1ph in / 1ph out)



### Key Features:

- Manual Rotatable LCD Screen
- Rack Tower Convertible Design
- Different Power Configuration Flexibility To Achieve a Multi - purpose Machine, Power Customized Available
- Selectable Digital Charger Form 1A ~ 12A, Match For Different Appliance
- Wide Input Voltage Range : 208 / 220 / 230 / 240Vac For Option
- High Efficiency up to 95.5%, Lower Power Loss and Save Cost
- Output Power Factor up to 1.0, As an Industry Leader, Super High Load Efficiency
- Green Power ECO Mode, Power Efficiency up to 98.5%
- Smart Adjustable Setting, Support Voltage Compensation of Output to Transformer

### Applications:

- **IT and Network Equipment**  
Small and medium-sized data centers  
Computer server room  
Production line control in factory
- **Embedded and Automatic Control System**  
Telecommunication base station Automatic control system  
Electronic and railway signaling systems security system  
Television broadcast system
- **Office and Business Equipment**  
Office computer and Printer  
Scanner and MPOS

**Shenzhen UPSen Electronic CO.,Ltd.**  
[www.upsen.net](http://www.upsen.net)

# Technical Specification:

Model	RP1K	RP1KL	RP1.5K	RP1.5KL	RP2K	RP2KL	RP3K	RP3KL	
Rated Capacity	1KVA / 1KW		1.5KVA / 1.5KW		2KVA / 2KW		3KVA/3KWH(72V) 3KVA/2.4KWH(48V)		
INPUT									
Input Formats	L + N + PE								
Rated Input Voltage	208 / 220 / 230 / 240Vac								
Voltage Range	110 – 300Vac (110 – 170Vac, 280 – 300Vac Power Limited)								
Frequency Range	50 / 60Hz ± 60Hz, ± 10Hz(Selectable)								
Input Power Factor	≥0.99								
Input Harmonic Distortion	±1% THD(Line Load), ± 5% THD(Non-linear Load) PF=0.8								
OUTPUT									
Output Formats	L + N + PE								
Output Voltage	208 / 220 / 230 / 240Vac								
Output Accuracy	±1%								
Output Frequency	AC Mode : same as AC, Battery Mode : 50 / 60Hz ± 1%								
Output Harmonic Distortion	≤1% THD(Line Load), ≤ 3% THD(Non-linear Load) PF=0.8								
Output Power Factor	1.0								
Transfer Time	AC Mode to Batt. Mode : 0ms, Inverter Mode to Bypass Mode : 4ms								
Load Capacity	AC Mode: 30min@125% ~ 110% Load 10min@110% ~ 130% Load 25s@138% ~ 150% Load 200ms@ > 150% Load				Battery Mode: 1min@125% ~ 110% Load 10s@110% ~ 130% Load 3s@130% ~ 150% Load 200ms@ > 150% Load				
MACHINE EFFICIENCY									
AC Mode	Full Load Efficiency 94.5%@220Vac		Full Load Efficiency 95.5%@220Vac			Full Load Efficiency 95.5%@220Vac			
Battery Mode	Full Load Efficiency 99.5%@36Vdc		Full Load Efficiency 91.5%@72Vdc			Full Load Efficiency 91.5%@36Vdc			
	Full Load Efficiency 99.5%@24Vdc		Full Load Efficiency 91.5%@48Vdc			Full Load Efficiency 91.5%@72Vdc			
BATTERY									
Battery Quantity	7Ah*2	36V	7Ah*4(7Ah*8)	72V	7Ah*4(7Ah*8)	72V	7Ah*4(7Ah*8)	96V	
Backup Time	Depend on user's requirement and configuration								
Charge Current	RP1K - 3K: 1.5A(Default), 1-2A (Adjustable) External Battery Back RP1KL - 3KL: 5.5A(Default), 1-12A (Adjustable)								
WORKING ENVIRONMENT									
Ambient Temperature	0 ~ 40°C								
Ambient Humidity	20% ~ 95% (No condensation)								
Storage Temperature	-15 ~ 60°C (Battery : 0 ~ 40°C)								
Altitude	< 1000m, derating at above 1000m, maximum 4000m, refer to IEC62040								
DISPLAY									
LCD	Working Mode / Load / Battery Power / Input / Output ect.								
STANDARD & CERTIFICATION									
Standard & Certification	EN / IEC 6106, EN / IEC 62643, GB / T4943, TD / T1095, T1C etc.								
COMMUNICATION INTERFACE									
Interface	1*USB, 1*RS232, 1*EPO								
N*(W)(G)	11.2	5.8	14.4	6.4	15	6.5	20.5	7.4	
G*(W)(G)	12.1	6.6	15.3	6.5	17	6.55	22.4	6.5	
Machine Size(mm)(W*D*H)	436*400 (without handle) 385mm*288mm						438*525 (without handle) 505mm*385mm		436*430 (without handle) 385mm*385mm
Package Size(mm)(W*D*H)	533*480*178						533*580*178		533*480*178

\*Product Specifications are Subject to Change Without Notice.

## RP Series Online High Frequency UPS:

The 1-10KVA RP series online high frequency UPS takes the three-level technique and soft switch design, with the active power factor correction (APFC) to make the input PFC can be high as 0.99. The new design make our RP series with high energy density ratio, reduce the UPS machine size very much, and also less occupy the space in the server room. The digital control make UPS with much more stable system, and also have the well ability of self-defensive and fault diagnosis.

### SAVE POWER

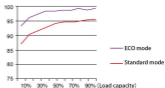
- At present, the efficiency of some brands in the market is generally between 80% – 93%.
- Take our SVC 3KVA and 6KVA as a sample, compared with the model which the efficiency is 90% in the market.
- Saving fee per year for 3KVA  
(0.1+55 - 0.9)/3000W\*24 hours \*365 day = 1445Kwh



### HIGHER EFFICIENCY

- 1 - 3 KVA, the maximum efficiency is up to 95.5%. In ECO mode, the efficiency is up to 98.5%, saving energy and electricity for you.

(Full machine efficiency)



The diagram of 1-10K efficiency under mains supply

### HIGHER DESIGN STANDARDS

- All models are designed to comply with standards EN/IEC 6100, EN/IEC 62040, GB/T7260, GB/T4943, YD/T1095, TLC, which greatly reduces the interference to the power grid and the equipment used, and protects the user's equipment well.

### CHARGING CURRENT & FREQUENCY

- All models of this series can support 1A ~ 12A charging current, and can flexibly configure battery combinations with different capacitances.
- Frequency can be setup in 50Hz / 60Hz  $\pm$  10Hz, with wider frequency adjustable range to match the input characteristics of the generator.