



POWERKINETICS

US9001



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UPS Cabinet Specifications

Model	Refer to Cabinet specifications table
System Architecture	Parallel Redundant
Communications*	Intelligent Serial Interface RS232
SNMP Capability*	Via SNMP adaptor
Network Interface*	Support most major Operating Systems
Dimension and Weight	Refer to Cabinet specifications table

Battery Module Specifications

Model	US9001 BA310E
Battery Type	Sealed Lead Acid, Maintenance Free
Battery Rating	12V 7AH
No. of Batteries	3
Backup Time	Refer to UPS autonomy run time table
Size (WxHxD) mm	134 x 226 x 499
Weight (Kg) with Battery	16
Weight (Kg) without Battery	8

External Battery Bank Cabinet

Model	US9001 CA1001E
Dimensions mm (WxHxD)	430 x 920 x 560
Weight kg	58

External Battery Bank Module

Model	US9001 BA510E
Dimensions mm (WxHxD)	170 x 130 x 490
Weight kg	19.5

Battery	
Battery Type	Sealed Lead Acid, Maintenance Free
Battery Rating	12V 7AH
No. of Battery	5
Backup time	Refer to UPS autonomy run time table

External Battery Bank = 1 unit of US9001 CA1001E and 10 units of US9001 BA510E.

* Applicable when power module is plugged in cabinet.
** Backup time is for reference only. Actual duration may vary depending on temperature, battery condition and peripherals added.
Recommended not to connect more than 80% load to a single UPS.

Power Module Specifications

Model	US9001 PA310E
Output Power Rating	1000VA / 600W
Output Voltage	230V
Output Voltage Regulation	±3%
Output Current Variation	0 to 100% permissible
Load Crest Ratio	3:1
Output Load Power Factor	0.8 - 1.0
Output Overload Capability	150% for 1 minute
Output Frequency	Synchronized to 50Hz on AC mode, ±0.1% on DC mode
Output Waveform	Sinewave
Output Voltage Distortion	<5% THD
Transfer Time	0 ms
Nominal Input Voltage	230V
Input Voltage Range	165 - 275V without using batteries
Input Frequency	50Hz ±5%
Surge Protection	Per EN50082-1, Meets IEC 801-4
EMI Suppression	EN 55022, CISPR 22B
Common Mode Noise Rejection	>80dB
Transverse Mode Noise Rejection	>80dB
Battery Type	Sealed Lead Acid, Maintenance Free
Battery Rating	12V 7AH
No. of Batteries	3
Backup Time	5 to 15 mins**
Battery Diagnostics	Automatic self-test
System Architecture	Modular and Hot Swappable
System Operation	Automatic, Push-button Control
System Diagnostics	Automatic self-test
User Interface	5 LED displays for on, backup, alarm and load level
Audible Noise	<50dBA
Ambient Temperature	0°C to +40°C
Relative Humidity	0% - 90% without condensation
Altitude	Less than 1000m above sea level
Size (WxHxD) mm	134 x 226 x 499
Weight (Kg) with Battery	16
Weight (Kg) without Battery	8

Specifications are subject to change without prior notice.

ON-LINE FAULT-TOLERANT POWER SUPPLY FOR APPLICATIONS : 1KVA to 12KVA



**PARALLEL
REDUNDANT**



MODULAR



SCALABLE



FLEXIBLE



HOT-SWAPPABLE



**SMART
COMMUNICATION**



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POWERKINETICS US9001



Like a usual UPS (Uninterruptible Power Supply), the US9001 provides backup power during power outage situations to keep a computer system running. What distinguishes the US9001 from others is its completely modular design. The modules in the system run independently of each other to ensure that the system will not stop even when any one of the modules fails. This unique approach makes the US9001 inherently reliable.

The US9001 is not only fault-tolerant in operation but also field upgradable and hot-swappable. It is the only power supply that can meet your present and future needs in mission critical applications.

The capacity can be easily configured just by plugging into the Cabinet the required number of modules in 1 KVA increments to the required capacity.



TRULY MODULAR
Custom build your power solution according to your system requirement



FLEXIBLE
Build to the exact solution you need. Upsize or downsize as your requirement change



PARALLEL REDUNDANT
Designed to continuously supply power, even if fault occurs in a module



HOT SWAPPABLE
Easily replaced without turning the UPS off, providing uninterrupted protection during servicing or upgrading



SCALABLE
Protects your investment, ensures your UPS can be easily upgraded in the future



SMART COMMUNICATION
The software monitor and control the UPS remotely. It also provides unattended shutdown of system

UPS Autonomy Run Time vs System Configuration

System Load (kVA)	Watts	Backup Time vs Minimum External Battery Bank								
		No. of External Battery Bank								
		1	2	3	4	5	6	7	8	9
1	360	8 hrs								
2	720	3.5 hrs	8 hrs							
3	1080	2 hrs	5 hrs	8 hrs						
4	1440	1.5 hrs	3.5 hrs	6 hrs	8 hrs					
5	1800	1 hr	2.5 hrs	4.5 hrs	6.5 hrs	8 hrs				
6	2160	50 mins	2 hrs	3.5 hrs	5 hrs	6.5 hrs	8 hrs			
7	2520	40 mins	1.5 hrs	3 hrs	4 hrs	5.5 hrs	6.5 hrs	8 hrs		
8	2880	34 mins	1.5 hrs	2.5 hrs	3.5 hrs	4.5 hrs	6 hrs	7 hrs	8 hrs	
9	3240	30 mins	1 hr	2 hrs	3 hrs	4 hrs	5.5 hrs	6 hrs	7 hrs	8 hrs
10	3600	25 mins	1 hr	2 hrs	2.5 hrs	3.5 hrs	4.5 hrs	5.5 hrs	6.5 hrs	7 hrs
11	3960	23 mins	56 mins	1.5 hrs	2.5 hrs	3 hrs	4 hrs	4.5 hrs	5.5 hrs	6.5 hrs
12	4320	20 mins	50 mins	1.5 hrs	2 hrs	3 hrs	3.5 hrs	4.5 hrs	5 hrs	6 hrs

Backup time is for reference only. Actual duration may vary depending on temperature, battery condition and peripherals added. Recommended not to connect more than 60% load to a single UPS.

Backup Time vs Minimum Battery Module Required

KVA	Watts	No. of Battery Module			
		30 mins	1 hr	2 hr	3 hr
1	360	1	2	4	5
2	720	2	5	8	11
3	1080	4	7	12	17
4	1440	5	10	17	23
5	1800	7	12	21	29
6	2160	8	15	25	
7	2520	10	17	29	
8	2880	11	20		
9	3240	13	22		
10	3600	14	25		
11	3960	16			
12	4320	17			

Rack-mount Cabinet Sizes

Slots	3	6
Max. Power Rating	3kVA	6kVA
Dimension mm (WxHxD)	483 x 313 x 542	483 x 615 x 542
Weight kg	19	39
No. of U	7	14
Cabinet Type: Input / Output		
220-230 V / 50/60 Hz / 220-230 V / 50/60Hz	US9001 CA301EBR	US9001 CA601EBR

Standard Cabinet Sizes

Slots	2	4	6	9	12
Max. Power Rating	2kVA	4kVA	6kVA	9kVA	12kVA
Dimension mm (WxHxD)	180 x 603 x 564	360 x 603 x 564	360 x 860 x 564	540 x 860 x 564	720 x 860 x 564
Weight kg	17	28	39	51	62
Cabinet Type: Input / Output					
220-230 V / 50/60 Hz / 220-230 V / 50/60Hz	US9001 CA201EB	US9001 CA401EB	US9001 CA601EB	US9001 CA901EB	US9001 CA1201EB
380-400 V / 50/60 Hz / 220-230 V / 50/60Hz				US9001 CA901EB	US9001 CA1201EB
380-400 V / 50/60 Hz / 380-400 V / 50/60Hz				US9001 CA903EB	US9001 CA1203EB