

Commercial UPS 1P:1P UPS (1-2-3kVA) Series

General Specifications

- **Wide input voltage range (110-300 VAC)**

Online operation with very low and high voltages without using battery power.

- **Input power factor correction (PF=0.99)**

Reduces consumed electrical energy and yields saving in electric bills.

- **High output power factor (PF=0.8)**

15% more power at the output in comparison to standard 0.7 power factor UPS systems. Can support more equipment.

- **Smart charger technology for optimum battery performance**

Provides longer battery life and lower operational costs due to special charging technique.

- **High performance microprocessor**

Because of its CPU control, digital structure and high speed; UPS performs overload, short circuit, low-high voltage and over temperature protections. By providing complete protection ensures a stable and reliable operation.

- **Multi-Function Buttons**

- 208/220/230/240 VAC Selectable Output Voltage
- 50/60 Hz Frequency Converter Mode
- ECO Mode Feature (High Energy Saving)
- EPO – Emergency Power Off
- Programmable Output



Technical Specifications

Capacity	1kVA	2kVA	3kVA
Input			
Low voltage transfer	160 VAC – %80-100, 140VAC – %70-80, 120 VAC – %60-70, 110 VAC – %0-60		
Low voltage correction	170 VAC ± %5		
High voltage transfer	300 VAC ± %5		
High voltage correction	290 VAC ± %5		
Frequency range	40 – 70 Hz		
Phase	1 Phase + Notr + PE		
Output			
Output voltage	200/208/220/230/240 VAC		
Voltage regulation battery mode	± %2		
Frequency range sync. mode	47-53 Hz or 57-63 Hz		
Frequency range battery mode	50 ± 0.25 Hz – 60 ± 0.3 Hz		
Over load line mode	% 105-110 Over load alarm, % 110-130 30s to By-pass, % 130-150 1.5s By-pass >% 150 Urgent to Bypass		
Over load battery mode	% 110 Over load alarm, % 110-130 30s to Shut down, % 130-150 1.5s to Shutdown >% 150 Urgent shutdown.		
Transfer time Line to battery	0 ms		
Transfer time Inverter to by-pass	4 ms (tipik)		
Transfer time Inverter to ECO	4 ms (tipik)		
Creast factor	3/1 (Max.)		
Harmonic distortion	≤ %3 THD (Lineer load) ≤ %6 THD (non-Lineer load)		
Wave type	True Sinusoidal		
Efficiency Line mode	~ %85		
Efficiency Battery mode	~ %83		
Battery Properties			
Battery type	12V / 7Ah	12V / 7Ah	12V / 9Ah
Battery quantity	3	6	6
Charging time	Up to %90 capacity 4 Hour		
Charge voltage	41.0 VDC ± %1	82.0 VDC ± %1	82.1 VDC ± %1
Charge current	1.0 A (Max.)		
External battery support	Optional		
External battery charge current	8.0 A (Max)		

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Communication & Software

Supported interface	RS 232, USB, Ethernet (Optional)
Supported OS Software	Windows, Linux, Mac OS

Dimensions & Weight

Product dimension (DxHxW) (mm)	397x220x145	412x318x190	412x318x190
Product weight with battery	13.0 Kg	25.3 Kg	25.3 Kg
Product weight without battery	N/A		
Package dimension (DxHxW) (mm)	475x325x230	560x460x320	560x460x320
Package weight with battery	14.0 Kg	27.7 Kg	27.7 Kg
Package weight without battery	N/A		
Master carton dimension (DxHxW)	475x325x230	560x460x320	560x460x320
Master carton weight with battery	14.0 Kg	27.7 Kg	27.7 Kg
Master carton weight without batt.	N/A		
Product quantity in master carton	1 PCS		

Dimensions & Weight

Operation temperature range (°C)	0°C – 40°C
Humidity (%)	%20 – %90 non-condensing
Noise (dBA)	50 dB

Important Note

Note	Saguen has the right to make changes without notice by the above features. Saguen is not responsible from the typographical errors.
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