

Samurai Online Rack/Tower 6 - 10 kVA



Application



Specifications

- On-line “double conversion” technology
- Power: 6k and 10kVA
- DSP (Digital Signal Processor) technology
- Wide input voltage range (1/1, 3/1 or 3/3 phase)
- Wide frequency range
- Input power factor up to 0.99 and high output power factor 1.0
- Parallel connection for up to 4 units (N+1) redundancy
- Rack/Tower 1 kVA - 10 kVA design with convertible display
- Input power factor correction (PFC)
- Battery (DC) cold start
- Generator compatible mode
- ECO mode for energy saving
- Self-test at UPS start-up
- Internal static and manual bypass
- Selectable amount of batteries: 16/18/20 pcs
- Common or separate battery in parallel mode
- Backup time indicated on the display
- Adjustable charger 1-10 A
- Fixing for tower and rack-mount included
- EPO contact (Emergency Power Off)
- Intelligent management through RS232 slot, USB
- Monitoring software included
- Backfeed protection

OPTIONS

- SNMP card, relay card
- External maintenance bypass
- Rack kit
- Battery pack

Convertible Rack/Tower



The multifunction graphical LCD display is convertible for Rack and Tower use. It shows input, output, battery and user helpful parameters.



Samurai Power Online Rack/Tower	Model			
	6000	10000	6000 3/1	10000 3/1
Power	6 kVA / 6 kW	10 kVA / 10 kW	6 kVA / 6 kW	10 kVA / 10 kW
Input				
Nominal voltage	208 / 220 / 230 / 240 V AC		380 / 400 / 415 V AC	
Operating voltage range	110 - 300 V AC			
Operating frequency range	45 ~ 55 Hz / 54 ~ 66 Hz			
Power factor	≥ 0.99 @Nominal voltage (100% load)			
Bypass voltage	Max voltage: 220 V AC: 10%, 15%, 20% or 25%, default: 25% 230 V AC max: 10%, 15% or 20%, default: +20% 240 V AC max: +10% or 15%, default: +15%			
Bypass frequency range	± 1%, ± 2%, ± 4%, ± 5%, ± 10%			
ECO range	Same as bypass			
Harmonic distortion (THDi)	≤ 3% (100% linear load), ≤ 5% (100% non-linear load)			
Efficiency	> 93.5%			
Output				
Voltage	208 / 220 / 230 / 240 V AC			
Power factor	1.0			
Voltage regulation	± 1%			
Frequency	Line mode	Synchronize to mains		
	Battery mode	50 / 60 (± 0.1%) Hz		
Crest factor	3 : 1			
Harmonic distortion	≤ 3% with linear load / ≤ 5% with non-linear load			
Efficiency	> 93.5%			
Battery				
Voltage	± 96 / 108 / 120 V DC			
Capacity (standard unit)	12V/5Ah or 12V/7Ah or 12V/9Ah			
Typical recharge time	6-8 hours recover to 90% of full capacity			
Charge current	1 A (Standard Unit); max. current 10 A (Long run unit); (charging current can be set according to battery capacity installed)			
System features				
Transfer time	Mains to battery: 0 ms; mains to bypass: 0 ms			
Overload	Line mode	Load 100 ~ 110%: 10 min, 110% ~ 130%: ≥ 1min, 130%: 1 s		
	Bypass mode	40 A (breaker)	63 A (breaker)	40 A (breaker) 63 A (breaker)
Environmental				
Operating temperature	0 °C ~ 40 °C			
Storage temperature	-25 °C ~ 55 °C			
Humidity range	0 ~ 95% (non-condensing)			
Altitude	< 1500 m			
Noise level	< 55 dB at 1 m			
Physical				
Weight (kg)	14	18	14	18
Dimension W × D × H (mm)	440 × 625 × 86.5			
Standards				
Safety	IEC/EN 62040-1, IEC/EN 60950-1			
EMC	IEC/EN 62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8			