

# Samurai RTC 6 - 10 kVA



## Specifications

- On-line “double conversion” technology
- DSP (Digital Signal Processor) technology
- Wide input voltage range (1/1, 3/1 or 3/3 phase)
- Wide frequency range 40-70 Hz +/- 0.5 Hz
- Input power factor up to 0.99 and high output power factor 0.9
- Parallel connection for up to 4 units (N+1) redundancy
- Rack/Tower 1 kVA - 20 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

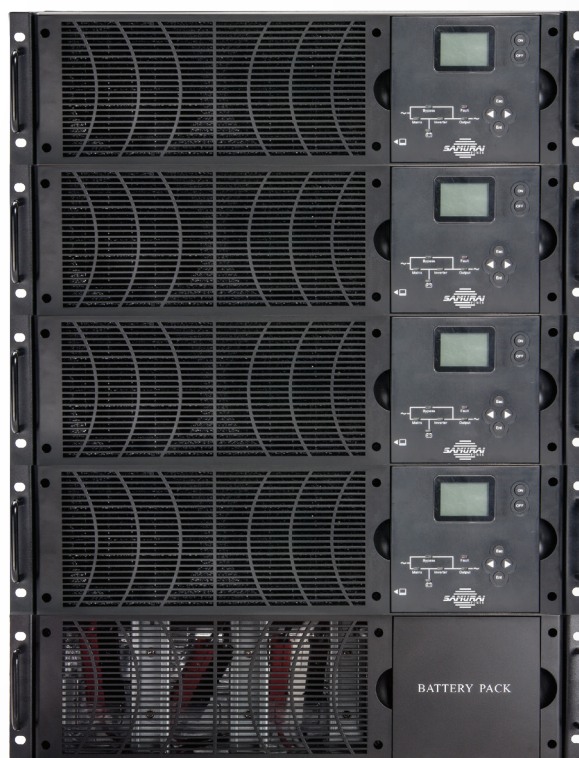
## OPTIONS

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

## Application



## Convertible Rack/Tower



Up to 4  
units in  
parallel

Common  
battery in  
parallel  
mode

Up to 4 Rack/Tower systems can be connected in parallel to get maximum power capacity. Only one battery is necessary in the parallel redundancy mode.



Samurai Online UPS MP series PF:09		Model			
		6000	10000	6000 3/1	10000 3/1
Power		6 kVA / 5.4 kW	10 kVA / 9 kW	6 kVA / 5.4 kW	10 kVA / 9 kW
Input					
Nominal voltage		220 / 230 / 240 V AC (L + N + PE)		380 / 400 / 415 V AC (3 Ph + N + PE)	
Operating voltage range		208 ~ 478 V AC or 120 V AC ~ 276 V AC			
Operating frequency range		50 Hz: 45 ~ 55 Hz; 60 Hz: 54 ~ 66 Hz (auto sensing)			
Power factor		> 0.99			
Bypass voltage		Max voltage: 220 V: + 25% (optional + 10%, + 15%, + 20%); 230 V: + 20% (optional + 10%, + 15%); 240 V: +15% (optional + 10%) Min voltage: - 45% (optional - 20%, - 30%)			
Bypass frequency range		Frequency protection range ± 10%			
ECO range		Same as bypass			
Harmonic distortion (THDi)		≤ 5% (100% linear load)			
Generator input		Support			
Output					
Voltage		220 / 230 / 240 V AC			
Power factor		0.9			
Voltage regulation		± 1%			
Frequency	Line mode	± 1% / ± 2% / ± 4% / ± 5% / ± 10% of the rated frequency (optional)			
	Battery mode	50 / 60 (± 0.1%) Hz			
Crest factor		3 : 1			
Harmonic distortion		≤ 2% with linear load / ≤ 5% with non-linear load			
Efficiency	AC mode	Online mode 93.5%, ECO mode 97%			
Battery (external)					
Voltage		± 96 / 108 / 120 V DC (optional)			
Backup time		Long run unit depends on the capacity of external batteries Estimated remaining time displayed on the LCD			
Typical recharge time		6 ~ 8 hours (to 90% of full capacity)			
Charge current		Max current 10 A; charge 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 ≤ 110%: 60 min, ≤ 125%: 10 min, ≤ 150%: 1 min, > 150: switching to bypass			
	Bypass mode	40 A (input breaker)	60 A (input breaker)	40 A (input breaker)	60 A (input breaker)
Environmental					
Operating temperature		0 °C ~ 90 °C			
Storage temperature		-25 °C ~ 55 °C			
Humidity range		0 ~ 95% (non-condensing)			
Altitude		< 1500 m			
Noise level		< 55 dB			
Physical					
Weight (kg)		20.2	21	22.2	23
Dimension W × D × H (mm)		440 × 670 × 128 (3U) + battery box			
Standards					
Safety		IEC/EN62040-1, IEC/EN60950-1			
EMC		C/EN62040-2, IEC61000-4-2, IEC61000-4-4, IEC61000-4-5, IEC-4-6, IEC61000-4-8			
Battery bank					
Model		IEC/EN62040-1, IEC/EN60950-1			
Battery type and max quantity		IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-6, IEC610000-4-8			
Physical of battery bank					
Dimension W × D × H (mm)		440 × 710 × 85 (3U)			
Net weight (kg)		19	20	30	31