

Samurai Modular UPS 90 - 300 kVA



Application



Big touchscreen LCD display



Modular B + X parallel redundancy

Specifications

- On-line "double conversion" technology
- Input power factor up to 0.99
- Output power factor 1.0
- DSP (Digital Signal Processor) technology
- Internal static and manual bypass in each module (no centralized bypass required)
- Hot swappable power and battery modules
- Wide input voltage range (3/3)
- Adjustable battery voltage (3/3)
- 6 A charging current per module
- Adjustable charging current
- Automatic load sharing
- Genset compatible
- Big touchscreen LCD display
- Various monitoring systems
- Additional bypass input
- Small footprint and very silent operation
- RS232/RS485 interface
- EPO (Emergency Power Off)
- Backfeed protection

Hot swappable module



Battery module (hot swap)



OPTIONS

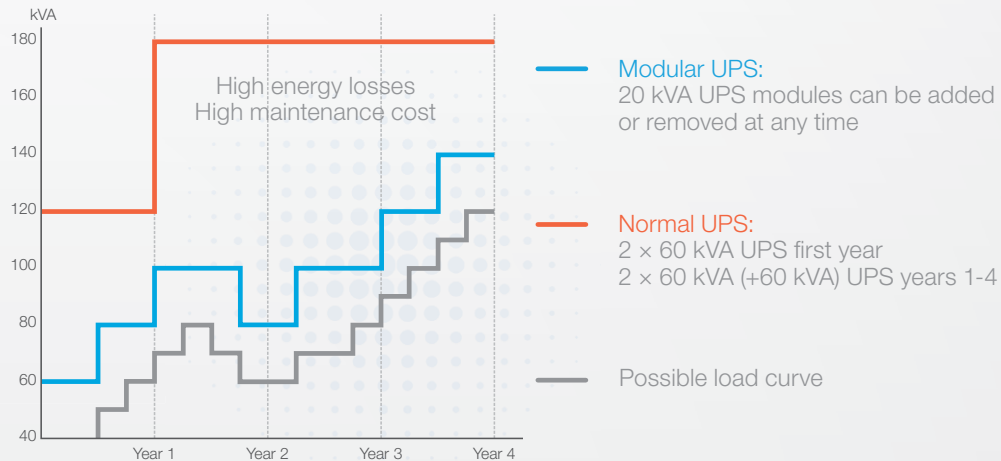
- SNMP card
- Relay card (dry contacts)



Optimize your investments

Power consumption and power requirements are constantly changing. With our Modular UPS you can simply increase or decrease the UPS power according to your needs. Increasing the UPS power in small steps is fast and cost effective. During a period of reduced power requirements/consumption, you simply remove UPS modules to save energy costs.

Example of changing load up to 120 kVA in 4 years.



Samurai Power Modular UPS		Model				
		VFI 60 TM 3/3	VFI 90 TM 3/3	VFI 150 TM 3/3	VFI 200 TM 3/3	VFI 300 TM 3/3
Capacity		60 kVA / 60 kW	90 kVA / 90 kW	150 kVA / 150 kW	200 kVA / 200 kW	300 kVA / 300 kW
HPM module		20kVA / 20kW and 25kVA / 25kW and 30kVA / 30kW				
Input						
Nominal voltage		380 / 400 / 415 V AC (3 Ph + N + PE)				
Operating voltage range		138 ~ 305 V AC for 40 % load; 305 ~ 485 V AC for 100% load				
Operating frequency range		40 - 70 Hz				
Power factor		≥ 0.99				
THDi		< 3% (100% linear load)				
Maximum voltage range bypass		220 V: +25% (optional + 10%, + 15%, + 20%) 230 V: +20% (optional + 10%, + 15%) 240 V: +15% (optional + 10%)				
Minimum voltage range bypass		-45% (optional - 10 %, - 20%, - 30%)				
Generator input		Supported				
Output						
Rated voltage		380 / 400 / 415 V AC (3 Ph + N + PE)				
Power factor		1.0				
Voltage regulation		± 1%				
Frequency	Line mode	± 1% / ± 2% / ± 4% / ± 5% / ± 10% of the rated frequency (optional)				
	Battery mode	(50 / 60 Hz ± 0.1%) Hz				
Crest factor		3 : 1				
Harmonic distortion (THD)		≤ 2% (linear load); ≤ 4% (non-linear load)				
Efficiency		95,8%				
Battery						
Voltage		192 ~ 240 V DC				
Power module charge current		10 A (max)				
Environmental						
Operating temperature		0 °C ~ 40 °C				
Storage temperature		-25 °C ~ 55 °C				
Humidity range		0 ~ 95% (non-condensing)				
Altitude		< 1500 m				
Physical						
W × D × H (mm)	UPS cabinet	600 × 850 × 1200			600 × 850 × 1600	600 × 850 × 2000
	HPM module	440 × 620 × 85 (2U)				
Regulations/Standards						
Safety		EN62040-1, IEC/EN60950-1				
EMC		IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC610004-4, IEC61000-4-5, IEC61000-4-6, IEC6100-4-8				