

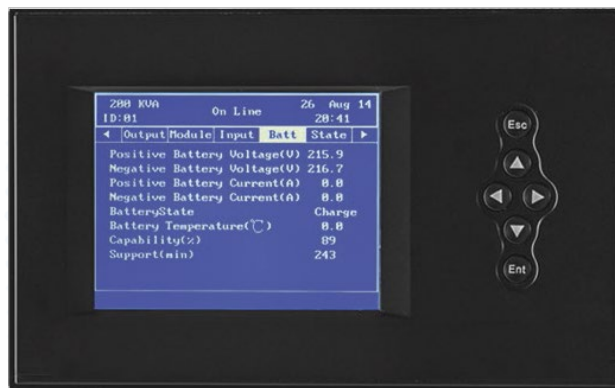
VFI 90-520k TM Modular



Application



Big touchscreen LCD display



Specifications

- On-line “double conversion” technology (VFI)
- Input power factor up to 0.99
- Output power factor 0.9 (optionally: 1)
- 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 (208/478 V AC) (3/3)
- Adjustable battery voltage (384 ~ 480 V DC) (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

Modular B + X paralel redundancy

Hot swappable module



Battery module (hot swap)



Options

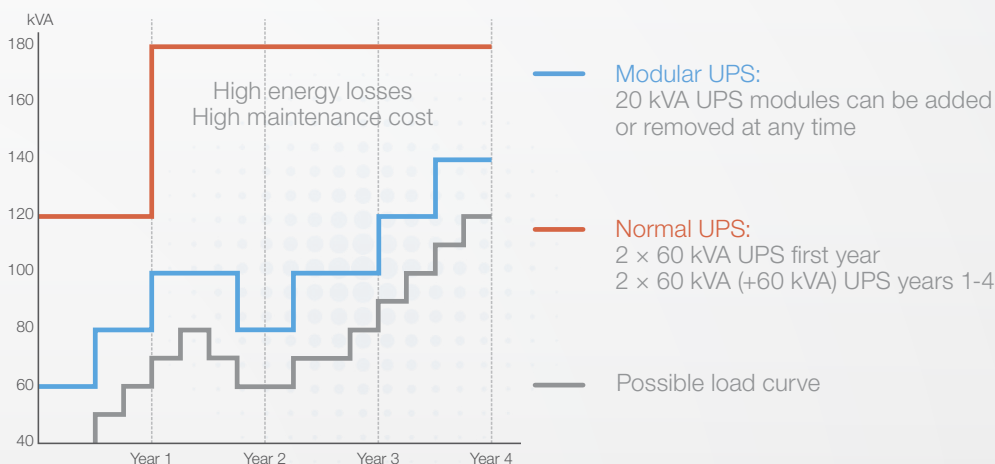
- SNMP card
- Relay card (dry contacts)

3 years warranty limited

Optimize your investments

Power consumption and power requirements are constantly changing. With our VFI TM Modular 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 VFI TM Modular	Model				
	VFI 90 TM 3/3	VFI 150 TM 3/3	VFI 200 TM 3/3	VFI 320TM 3/3	VFI 520TM 3/3
Capacity	90 kVA / 81 kW	150 kVA / 135 kW	200 kVA / 180 kW	320kVA / 288 kW	520 kVA / 468 kW
Input					
Terminals	L1, L2, L3, N, PE				
Rated voltage	380 / 400 / 415 V AC				
Voltage range	208 ~ 478 V AC				
Frequency range	40 - 70 Hz				
Power factor	≥ 0.99				
THDi	< 3% (100% / non linear load)				
Maximum voltage range bypass	+15% (optional + 5%, + 10%, + 25%)				
Minimum voltage range bypass	-45% (optional - 20 %, - 30%)				
Frequency protection range	±10%				
Generator input	Supported				
Output					
Rated voltage	380 / 400 / 415 V AC				
Power factor	0.9				
Voltage regulation	± 1%				
Frequency	Utility mode	± 5% of the rated frequency			
	Battery mode	50 / 60 Hz ± 0.2%			
Crest factor	3 : 1				
THD	≤ 2% (linear load); ≤ 5% (non-linear load)				
Waveform	Pure sinewave				
Efficiency	Online mode 95% , ECO mode > 98%				
Battery					
Voltage	192, 204, 216, 228, 240 V DC; depending on the battery set				
Charging current (max)	30 A	50 A	50 A	80 A	130 A
Protection					
Overload capability (utility mode)	≤ 110% for 60 min; ≤ 125% for 10 min; ≤ 150% for 1 min; ≤ 150% for 1 min switch to bypass				
Overload capability (battery mode)	≤ 110% for 10 min; ≤ 125% for 1 min; ≤ 150% for 15 s; ≤ 150% shut down UPS immediately				
Overload capability (bypass mode)	Module breaker: 10 kVA at 20 A, 20 kVA at 40 A, 30 kVA at 63 A				
Short circuit	Hold whole system				
Self-diagnostics	Upon power on and software control				
EPO	Shut down UPS immediately				
Battery	Advanced battery management				
Regulations/Standards					
Safety	EN62040-1				
EMC	EN62040-2 Class C3				
Certifications	CE				