

Samurai Online Tower 3/3 10 - 120 kVA



Application



Price-performance Ratio

The Samurai Online Tower 3/3 10-120 kVA series is our best “price-performance ratio” 3/3 phase UPS. Based on our modular UPS technology, we are able to offer extremely small UPS 10-30 kVA solutions. With combination of our modular based UPS and a special DC/DC converter, the Samurai Online Tower 3/3 10-120 kVA can work with a battery voltage of only 192 to 240 V DC (adjustable). It allows us to reduce space, batteries and price.

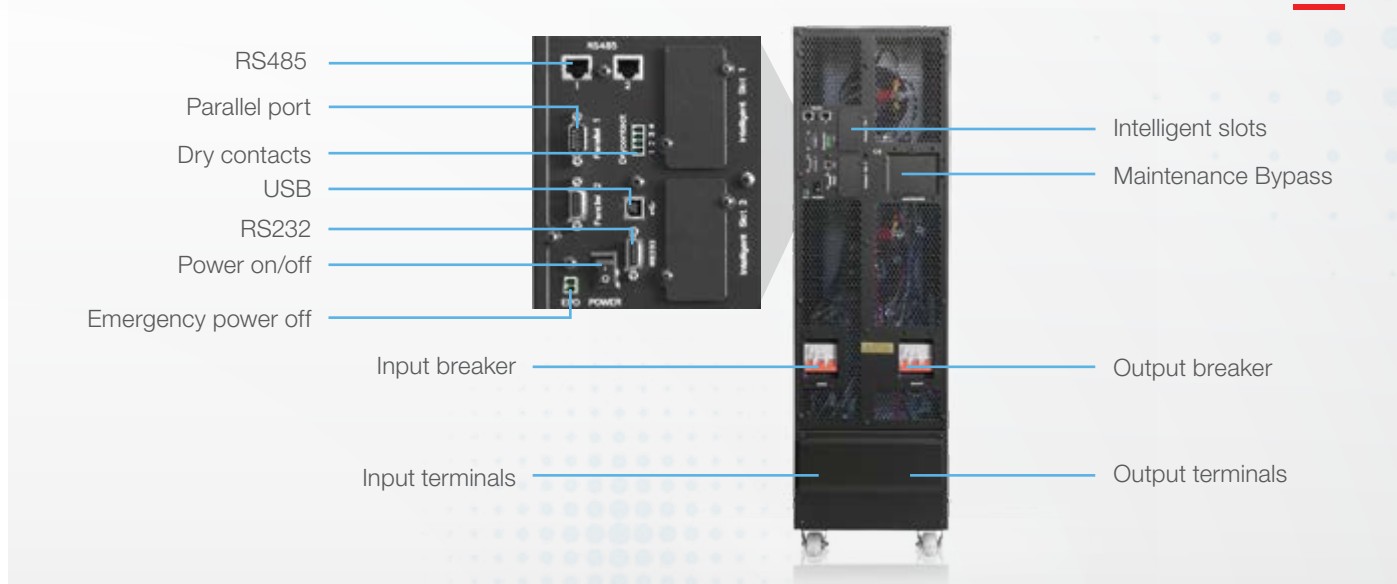
Specifications

- On-line “double conversion” technology
- Power: 10, 15, 20, 30, 40, 60, 80, 100, 120 kVA
- Parallel redundancy On-line UPS (up to 4 units)
- Input power factor up to 0.99 (PFC technology)
- DSP (Digital Signal Processor) technology
- Common battery string for parallel units
- IGBT technology (rectifier and inverter)
- Internal static and manual bypass
- 16/18/20 pcs 12 V batteries per string (adjustable)
- 32/36/40 pcs 12 V batteries per string for 40 kVA units (adjustable)
- ECO mode for energy-saving
- Intelligent charging management
- Self-test during UPS start-up
- Internal and external batteries
- High output factor 1.0
- Unbalanced load acceptable (generator mode)
- Wide input voltage range
- Battery (DC) cold start
- LCD - LED double display with audible/visible alarms
- ES485 and USB ports, dry contacts
- EPO (Emergency Power Off)
- Backfeed protection

OPTIONS

- SNMP card
- Relay card
- External maintenance bypass
- Galvanic isolation transformer





Samurai Power Online Tower 3/3	Model						
	10000	15000	20000	30000	40000	60000	120000
Power	10 kVA 10 kW	15 kVA 15 kW	20 kVA 20 kW	30 kVA 30 kW	40 kVA 40 kW	60 kVA 60 kW	120 kVA 120 kW
Input							
Nominal voltage	380 / 400 / 415 V AC (3 Ph + N + PE)						
Operating voltage range	305 ~ 478 V AC (full load); 208 ~ 478 V AC (50% load)						
Frequency range	50 or 60 Hz					40 - 70 Hz	
Power factor	0.99					≥ 0.99	
Harmonic distortion (THDi)	≥ 3% (at 100% non-linear load)					≥ 2% (100% non-linear load)	
Bypass voltage range	-45% ~ +25%						
Generator input	Support						
Output							
Output voltage	380 / 400 / 415 V AC (3 Ph + N + PE)						
Power factor	1.0						
Voltage regulation	± 1%						
Frequency	Line mode: synchronize with input; when input frequency > ±10% (±1% / ±2% / ±4% / ±5% optional), output (50 / 60 ± 0.1) Hz; Battery Mode: (50 / 60 ± 0.1) Hz						
Efficiency	93.5%	94.5%				95.5%	
Harmonic distortion (THD)	< 1% linear load, < 3% non-linear load					< 1% linear load, < 4% non-linear load	
Crest factor	3 : 1						
Battery							
Voltage	96 - 120 V DC				192 - 240 V DC		
Charging current	Max. current 15 A						Max. current 30 A
Standard							
Safety	IEC/EN62040-1, IEC/EN60950-1						
EMC	IEC/EN62040-3, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8						
Dimensions							
Weight (kg)	70	76	77	78	79	82	160
W × D × H (mm)	250 × 900 × 868					250 × 828 × 868	442 × 850 × 1200
Environment							
Humidity	0 ~ 95% (non-condensing)						
Storage temperature	-25 °C ~ 55 °C (no battery)						
Operating temperature	0 ~ 40 °C						
Altitude	< 1500m. When > 1500 m, lower the rated power for use						
Interface							
Standard	RS232, USB, EPO, intelligent slot, USB, dry contacts, intelligent slot, parallel port RS485, RS232, EPO						
Optional	SNMP, Relay card						