



**SUPREME**  
Smart Innovation

Power Up, Even When the Lights Go Out



PREMIUM SERIES  
**UNINTERRUPTIBLE  
POWER SUPPLY**

(6kVA ~ 10kVA / 10kVA ~ 30kVA)

SPM9110T / SPM9310T

[www.supremepowersystems.com](http://www.supremepowersystems.com)

# SPM9110T - TRANSFORMER-BASED, ONLINE UPS (3:1 / 1:1)

6kVA ~ 30kVA

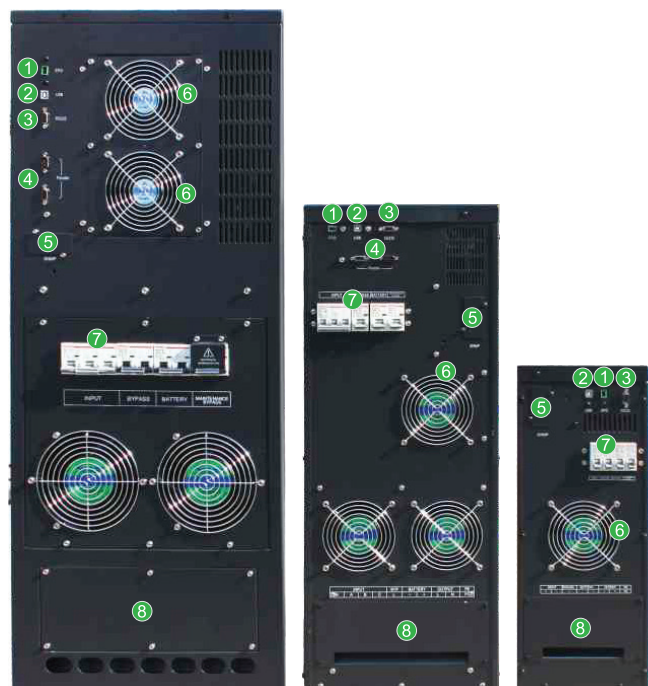
PF 0.8

## Features

- Single / single-phase, three / single-phase models with on-line double conversion technology
- DSP (Digital Signal Processors) technology
- Suitable for all kinds of loads (resistive, inductive and non-linear loads etc)
- High overload capability (up to 150%)
- Bypass dual DSP control design to enhance more reliability (10-30K)  
Supports dual input, hot standby in series
- Redundant & parallelable with advanced parallel current-sharing control technology
- Cold start and mains start function
- High charging capability: 2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable (standard), 14 A / 16 A / 18 A / 20 A / 22 A / 24 A selectable (options) (10-30K)
- Standard configuration with output isolation transformer
- Superior protection (surgers, short-circuit, overvoltages, undervoltages, overcharge, reverse connection protection etc)
- Advanced communications (RS232 and USB ports (standard), SNMP, dry contacts and RS485 (options))
- Other options (parallel kits, input isolation transformer, bypass isolation transformer and harmonic suppressor)

## Rear Panel

1. EPO
2. USB
3. RS232
4. Parallel port (Optional)
5. SNMP (Optional)
6. Fan
7. Breaker
8. Terminal



MODEL	SPM9106T	SPM9110T	SPM93110T	SPM93115T	SPM93120T	SPM93130T
Capacity	6 kVA / 4800 W	10 kVA / 8 kW	10 kVA / 8 kW	15 kVA / 12 kW	20 kVA / 16 kW	30 kVA / 24 kW
<b>INPUT</b>						
Rated voltage	220 / 230 / 240 Vac (1 $\Phi$ + N + PE)		380 / 40 / 415 Vac (1 $\Phi$ + N + PE)			
Voltage range	165 ~ 275 Vac		285 ~ 475 Vac			
Rated frequency	50 Hz / 60 Hz					
Frequency range	40 ~ 70 Hz					
Frequency tracking range	$\pm$ 5% Hz					
<b>BYPASS</b>						
Rated voltage	220 / 230 / 240 Vac (1 $\Phi$ + N + PE)					
Overload	Load current < rated current: long time running, 150% $\leq$ load current < 200% for 1 min, 200% rated current $\leq$ load current for 200 ms					
<b>BATTERIES</b>						
Battery voltage	192 Vdc					
Battery type	VRLA AM maintenance-free lead based					
Number of battery	12 V x 16 pcs					
Charging voltage	216 Vdc					
EOD	168 Vdc					
Chargin current	Default 8 A (2 A / 4 A / 6 A / 8 A / 10 A / 12 A selectable )					
<b>OUTPUT</b>						
Rated voltage	220 / 230 / 240 Vac (1 $\Phi$ + N + PE)					
Power factor	0.8					
Waveform	Sinusiodal					
Rated frequency	50 Hz / 60 Hz (settable)					
Frequency precision	Mains mode: track bypass input in the state of synchronization Battery mode: 50 / 60 $\pm$ 0.1 Hz					
Voltage precision	$\pm$ 1%					
Recovery time of transient voltage	< 20 ms					
Crest factor	3:1					
THDV	$\leq$ 3% (linear load); $\leq$ 6% (non-linear load)					
Overload	Load $\leq$ 105%: long time running, 105% < load $\leq$ 125% for 10 min, 125% < 150% for 1 min, 150% < load $\leq$ 200% for 200 ms, 200% < load for 100ms					
<b>OTHERS</b>						
Transfer time	0 ms					
Protections	Short-circuit-overload-overvoltage-undervoltage-low battery-overtemperature					
Communications	RS232 / USB (standard); RS485 / SNMP / dry contacts (optional)					
Operating temperature	0 ~ 40°C					
Storage temperature	- 25°C ~ 55°C (without batteries)					
Relative humidity	0 ~ 95% (non-condensing)					
Operating altitude	$\leq$ 1000 m (derating 1% for each additional 100 m)					
Noise level	60 db (at 1 m)					
MTBF	MTBF > 200000 h					
MTTR	MTTR < 0.5 h					
IT rating	IP 20					
Dimensions (W X D X H) (mm)	210 x 585 x 590	310 x 600 x 880		400 x 815 x 1100		
Packaged dimensions (W X D X H) (mm)	328 x 716 x 805	430 x 710 x 1080		525 x 925 x 1305		
Net weight (kg)	6 kVA / 4800 W	10 kVA / 8 kW	10 kVA / 8 kW	15 kVA / 12 kW	20 kVA / 16 kW	30 kVA / 24 kW
Gross weight (kg)	6 kVA / 4800 W	10 kVA / 8 kW	10 kVA / 8 kW	15 kVA / 12 kW	20 kVA / 16 kW	30 kVA / 24 kW

# SPM9110T



**Supreme North America Corporation**

13562 Maycrest Way, Richmond, BC, Canada

**Tel:** +1 604 227 3926 | **Fax:** +1 204 400 8316

**Website:** [www.supremepowersystems.com](http://www.supremepowersystems.com)

