

N+X Capable Online UPS

VS Pro series is the latest innovation in double-conversion online uninterruptured power system that is designed to deliver efficient, premium-grade power with superb power quality in today's demanding power protection environment.

Utilizing the latest DSP technology and high-precision PWM control, VS Pro series increases overall power-delivering performance by improving component's performance with digital accuracy. And with its latest smart paralleling capability standarddized across the entire range, cost savings are improved and any future investment is protected.

FEATURES

- ❑ Available in 1000, 2000, 3000, 6000, 10000VA Single-phase power
- ❑ Microprocessor-based control and DSP technology
- ❑ PWM Technology with IGBTs
- ❑ Wide input voltage range
- ❑ N+X Modular paralleling capability
- ❑ Extendable battery runtime design
- ❑ Cold start capability
- ❑ Automatic self test
- ❑ Web-enable remote monitoring capability via SNMP
- ❑ Smart Rs232 interface for Power Management software for Windows, Unix, Linux variants and Mac
- ❑ SNMP card / AS400 Relay card / RS485 card are supported via internal slot
- ❑ Also avialable in rack-mount for 1000, 2000 and 3000 VA



BATTERY RUNTIME CHART

Model	Percentage of load (%)	Internal Battery	Ext. Battery Cab (18AH)	Ext. Battery Cab (27AH)
VS Pro 106	50 100	13 mins 6 mins		
VS Pro 106E	50 100		50mins 20 mins	60mins 30 mins
VS Pro 110	50 100	8 mins 3 mins		
VS Pro 110E	50 100		25mins 10mins	40mins 15mins

Note : Data based on 9AH battery, battery voltage is 240Vdc



Model	101 (E)	102 (E)	103 (E)	106 (E)	110 (E)
Capacity kVA / kW	1 / 0.8	2 / 1.6	3 / 2.4	6 / 4.8	10 / 8.0
Dimension, D x W x H mm	397 x 145 x 220	421 x 190 x 318		592 x 250 x 576	
Net weight, kg	13 (7)	26 (13)	28 (13)	81 (25)	83 (27)

Input

Phase	Single phase, Neutral and Ground				
Voltage range	160~300 ≤ 5% @ full load, 110~300 ≤ 5% @ 50% load			176~300 ≤ 3% @ full load	
Frequency range	47.5 ~ 52.5 Hz			46 ~ 54 Hz	
Power connection	IEC			Hardwire terminals	

Output

Voltage	220 / 230 / 240				
Voltage regulation (battery mode)	± 3%			± 1%	
Frequency range (sync range)	47 ~ 53			46 ~ 54	
Frequency range (battery mode)	50 Hz ± 0.25			50 Hz ± 0.1	
Waveform	Clean Continuous Sinewave				
Transfer time	AC to battery mode is 0ms				
	Inverter to bypass is 4ms (typical)			Inverter to bypass is 0ms	
Current crest ratio	3 : 01				
Total Harmonic distortion (Linear / non-Linear)	≤ 3% / ≤ 6%	≤ 4% / ≤ 7%		≤ 3% / ≤ 6%	
Power outlet	IEC320	IEC320		IEC320 + Hardware terminals	

Battery

Capacity / Voltage	7AH / 36VDC	7AH / 72VDC	9AH / 72VDC	7AH / 240VDC	9AH / 240VDC
Recharge time (to 90% capacity)	4 hours			7 hours	9 hours
Charging Current (max. Amp)	1.0A (8.0)	1.0A (8.0)	1.0A (8.0)	1.0A (4.0)	1.0A (4.0)

System

Parallel Redundancy	N/A	Up to 3 units
LCD monitor	Load / Battery / Input / Output / Operating mode	
Audible alarm	Battery mode : sounding every 4 seconds Battery low : sounding every second Overload : sounding twice every second Fault : continuous sounding	
Relative humidity	20 ~ 90% @ 0 to 40 degree Celcius (non-condensing)	
Noise Level	Less than 45dBA @ 1 Meter	Less than 58dB @ 1 Meter
Protection degree	IP 20	
Communication interfaces	USB, Rs232 and SNMP slot (optional)	
Power monitoring software	Supports Windows 7, Windows Vista/XP/2003/2000, Linux, Unix and MAC	
Web Monitoring software	Power management from SNMP manager and web browser	

* E denotes extended backup time models

** Product specifications are subject to change without prior notice



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