

VS SERIES

800-2000 WATTS

VS Series

Total Power	800 - 2500 Watts
Input Voltages	85 - 265VAC, 3 phase
# of Outputs	1 - 12
Size	5" x 5" x 11" 5" x 8" x 11"

SPECIAL FEATURES

- Power factor correction
- IEC 555-2 harmonic distortion compliance
- CISPR 22, EN55022 Level B conducted / radiated EMI
- IEC 801 immunity standards
- European CE Mark
- Current share on all outputs
- Remote sense on all outputs
- Overload protection on all outputs
- Voltage adjustment on all outputs
- Margining on all outputs
- AC-OK-signal (two logics)
- Global DC OK (two logics)
- DC-OK signal and status indicator LED-on all outputs
- Global and individual module inhibits/enable
- 3 year warranty
- 2500W with 3 phase input

SAFETY

UL	UL1950	E133211
CSA	CSA22.2 - 950	LR42001B
IEC	IEC950, Class 1	
VDE	EN60950	79579 & 79580
TUV	EN60950	R9272192 & R9272191



VS1 - B2 - H522 - 00
(600W) (500W) 1100W total



VS1 - L2 - 00
(1500W) 1500W total



VS3 - D2 - C2 - 20
(1200W) (900W) 2000W max total



VS8 - L9 - D9 - 20
(1500W) (1200W) 2500W total (case limit)

ENVIRONMENTAL

Operating temperature: -10°C to 50°C
(derate each output linearly to 60% at 70°C)
40°C max for reverse air (option #1)

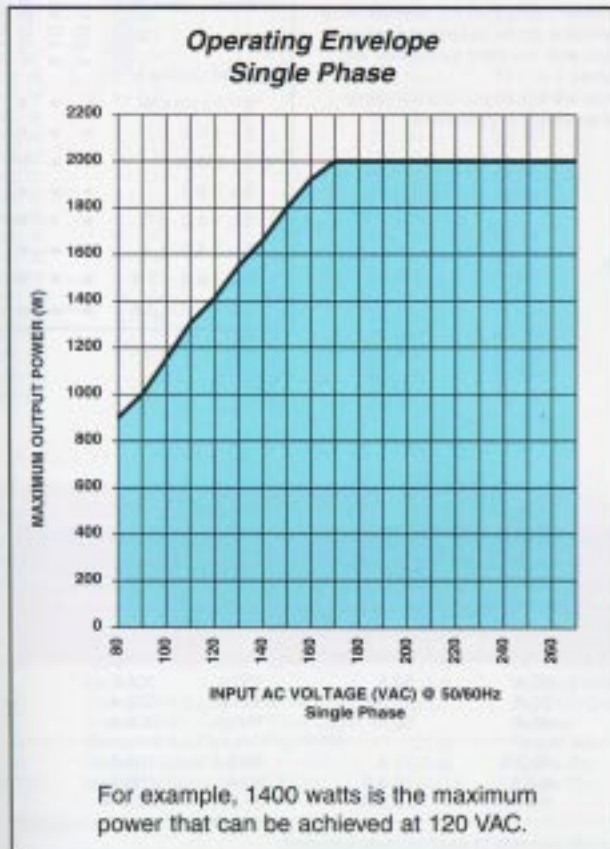
Shock/Vibration: Mil-Hdbk 810E

Humidity: 95% non-condensing

Storage temperature: -55°C to +85°C

Temperature coefficient: 0.02% per °C

Cooling: Internal DC fan 24V



For application information, see Application Note or PowerFAX Doc. no 1159.

ELECTRICAL SPECIFICATIONS

Input

Fuse rating	600 V/25 A (internal)
Input voltage	85 - 264 VAC VS1 and VS3 See operating curve 180-264 VAC 3Ø VS6 and VS8
Frequency	47 to 440 Hz
Inrush current	40 A peak max
Efficiency	75% - 82%
Power factor	0.99 typical (0.9 on VS6 & VS8)
Turn-on time	AC / 1 sec; Inhibit / 100 ms max
EMI-filter	CISPR 22, EN55022 Level B conducted/radiated
Leakage current	2 mA max at 264 VAC
Holdover storage	20 ms minimum/40 ms typical independent of VAC
AC-OK warning time	> 5ms (power fail)
Loss of phase	On VS6 & VS8, unit will continue to operate with loss of phase

Output

Adjustment range	± 10% minimum
Margining	± 4-6% nominal
Line/load reg	0.2% or 5 mV max
Ripple	RMS: 0.1% or 10 mV P-P: 1.0% or 50 mV Bandwidth limited to 20 MHz
Dynamic response	2% or 100 mV with 25% load step (any output)
Recovery time	To within 1% in < 300µsec
Overvoltage protection	2 to 5 V 122% to 134% of output voltage; 12 to 28 V 110% to 120%; recycle AC
Overload protection	Main: 105% to 120% of rated current Auxiliaries: 105% to 140%
Short circuit protection	Protected for continuous short circuit, recovery automatic
Reverse voltage protection	100% of rated output current
Thermal protection	Each module thermally protected. Input module: auto recovery. Output modules; recycle AC.
Remote sense	Up to 0.5 V-total drop
Single wire parallel	Current share to 2% of total rated current
Switching frequency	200 KHz(900-1500 watt module, 400 KHz)
DC OK	-2% to -6% of nominal