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Electrical Specs

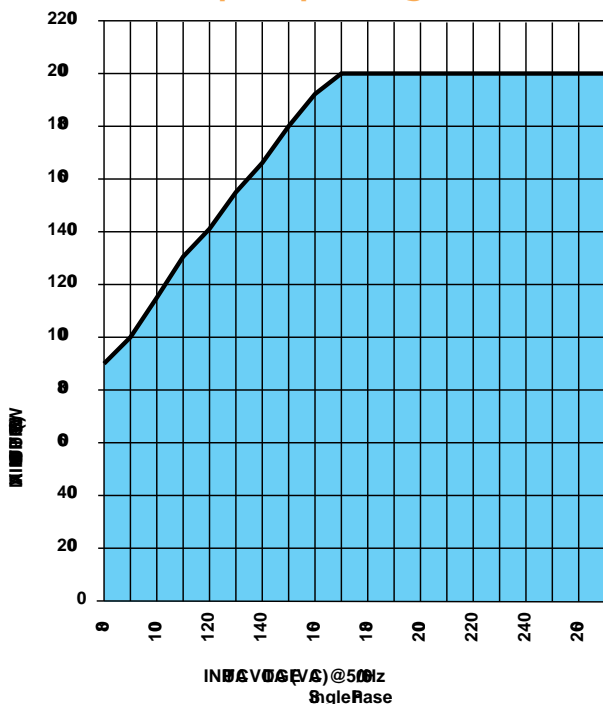
Input

Fuse rating	600 V / 25 A (internal)1Ø 250 V / 20 A (internal)3Ø
Input voltage	85-264 VAC 1Ø 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 240 VAC
Holdover storage	20 ms min. / 40 ms typical independent of VAC
AC-OK warning time	>5 ms (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 <300 µsec
Overvoltage protection	2-5 V 122% to 134% of output voltage; 12-48 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 W module, 400 KHz)
DC OK	-2% to -6% of nominal
Output/Output isolation	>1 Megohm

Input Operating Curve

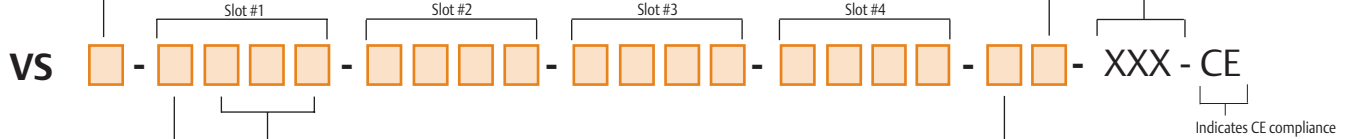


# Common Examples and Specifications

## Case size

- 1 = 5 inch, 2 slot, 1500 W max 1Ø
- 3 = 8 inch, 4 slot, 2000 W max 1Ø
- 6 = 5 inch, 2 slot, 1500 W max 3Ø
- 8 = 8 inch, 4 slot, 2500 W max 3Ø

(Same for Each Slot)



## Option Code

- 0 = no options
- 1 = rear air exhaust (40°C max.)
- 3 = set unit for global enable
- 5 = options 1 & 3

## Output Module Code

- A = 300 W single 1 slot
- B = 600 W single 1 slot
- C = 900 W single 2 slots
- D = 1200 W single 2 slots
- E = 250 W dual 1 slot
- F = 250 W triple 1 slot
- G = 500 W dual 1 slot
- H = 500 W triple 1 slot
- K = 750 W single 1 slot
- L = 1500 W single 2 slot

## Output Voltage Code

- 0 = 2V
- 1 = 3.3 V
- 2 = 5 V
- 3 = 12 V
- 4 = 15 V
- 5 = 24 V
- 6 = 28 V
- 7 = 36 V
- 8 = special voltage (consult factory)
- 9 = 48 V

## Configuration Rules

1. Omit digits that do not apply.
2. a. Specify modules from lowest number of outputs to highest.  
b. If number of outputs are equal, specify from highest to lowest power increments.  
c. If power increments are equal, specify from highest to lowest current.
3. All model configurations created using this selection guide represent standard products with standard availability and lead times.
4. If slots are left empty, a blank panel will be automatically installed.

## Parallel Code

VS1 and VS6 available slots

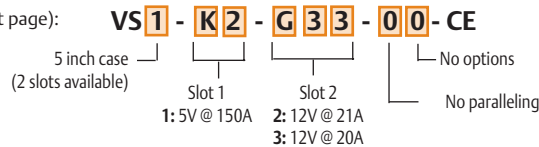
VS3 and VS8 available slots

## Parallel Codes

- 0 = no parallel
- 1 = 1 & 2
- 2 = 2 & 3
- 3 = 3 & 4
- 4 = 1 & 2 & 3
- 5 = 2 & 3 & 4
- 6 = 1 & 2 + 3 & 4
- 7 = 1 & 2 & 3 & 4

## Example

(more on next page):



## Output Current

Output Voltage Identification		Module Identification							
Output Voltage Code	Output Voltage	A (1 slot) 300 W Single	B (1 slot) 600 W Single	C (2 slots) 900 W Single	D (2 slots) 1200 W Single	E, F (1 slot) 250 W Multi Main Output	G, H (1 slot) 500 W Multi Main Output	K (1 slot) 750 W Single	L (2 slots) 1500 W Single
0	2 V	60 A	120 A	180 A	240 A	25 A	50 A	150 A	300 A
1	3.3 V	60 A	120 A	180 A	240 A	25 A	50 A	150 A	300 A
2	5 V	60 A	120 A	180 A	240 A	25 A	50 A	150 A	300 A
3	12 V	25 A	50 A	75 A	100 A	10.5 A	21 A	62.5 A	125 A
4	15 V	20 A	40 A	60 A	80 A	8.3 A	16.6 A	50 A	100 A
5	24 V	12.5 A	25 A	37.5 A	50 A	5.3 A	10.5 A	31.2 A	62.4 A
6	28 V	10.7 A	21.4 A	32.1 A	42.8 A	4.5 A	9 A	26.7 A	53.4 A
7	36 V	8.3 A	16.6 A	24.9 A	33.2 A	N/A	N/A	20.8 A	41.6 A
9	48 V	6.3 A	12.5 A	18.75 A	25 A	N/A	N/A	15.6 A	31.2 A

Note: Increments of current not shown can be achieved by paralleling modules (add currents of each module selected).

## Auxiliary Output Table: Output(s) 2 and/or 3 of Module

Voltage Identification		Module Identification			
Output Voltage Code	Output Voltage	E 250 W Dual Aux. Output	F 250 W Triple Aux. Output	G 500 W Dual Aux. Output	H 500 W Triple Aux. Output
0	2 V	10 A	5 A	20 A	10 A
1	3.3 V	10 A	5 A	20 A	10 A
2	5 V	10 A	5 A	20 A	10 A
3	12 V	10 A	5 A	20 A	10 A
4	15 V	10 A	5 A	20 A	10 A
5	24 V	5 A	2.5 A	10 A	5 A
6	28 V	5 A	2.5 A	10 A	5 A

# Drawings

## VS1 & VS6 • 1000-1500 WATTS

### 5-inch Case Size (5" x 5" x 11")

