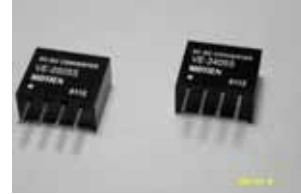


**VE SERIES****2 WATT****VE-S(H)****Single Output**

- 1000 Vdc Isolation
- Up to 3000 Vdc Isolation
- 4 Pin SIL Package
- Low Ripple and Noise
- Unregulated
- Non-conductive Black Plastic Case
- MTBF > 2 MHours



Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
VE-0505S	5	5	400	77
VE-0509S		9	222	82
VE-0512S		12	167	84
VE-0515S		15	133	84
VE-0524S		24	83	84
VE-1205S	12	5	400	80
VE-1209S		9	222	85
VE-1212S		12	167	85
VE-1215S		15	133	85
VE-1224S		24	83	83
VE-2405S	24	5	400	80
VE-2409S		9	222	86
VE-2412S		12	167	86
VE-2415S		15	133	86
VE-2424S		24	83	88

Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
VE-0505SH	5	5	400	77
VE-0509SH		9	222	82
VE-0512SH		12	167	84
VE-0515SH		15	133	84
VE-0524SH		24	83	84
VE-1205SH	12	5	400	80
VE-1209SH		9	222	85
VE-1212SH		12	167	85
VE-1215SH		15	133	85
VE-1224SH		24	83	83
VE-2405SH	24	5	400	80
VE-2409SH		9	222	86
VE-2412SH		12	167	86
VE-2415SH		15	133	86
VE-2424SH		24	83	88

- Suffix "H" means 3000 Vdc Isolation.
- Input Voltage is from 5 V to 48 V and Output Voltage is from 3.3 V to 24 V.

**Input Specifications:**

Voltage Range	10%
Filter	Capacitors

**Isolation Specification:**

Rated Voltage	1000 Vdc, Standard 3000 Vdc, Suffix "H"
Resistance	1000M $\Omega$ , Min.
Capacitance	60 pF, Typ.

**Output Specifications:**

Voltage Accuracy:	$\pm 3\%$ , Max.
Ripple and Noise (at 20 MHz BW)	120mVp-p, Max.
Short Circuit Protection	Momentary
Line Voltage Regulation	$\pm 1.2\%$ / 1.0% of Vin
Load Voltage Regulation	$\pm 8\%$ , load = 20~100%
Temperature Coefficient	$\pm 0.02\%$ / $^{\circ}\text{C}$

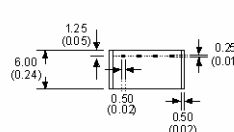
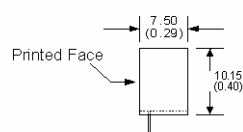
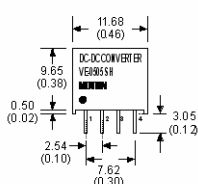
**General Specifications:**

Efficiency	77% ~ 88%
Switching Frequency	125 KHz, Typ.

**Environmental Specification:**

Operating Temperature (Ambient)	-40 $^{\circ}\text{C}$ ~ +85 $^{\circ}\text{C}$
Case Temperature	95 $^{\circ}\text{C}$ Max.
Storage Temperature	-40 $^{\circ}\text{C}$ ~ +125 $^{\circ}\text{C}$
Derating	None Required
Humidity	Up to 90%, Non-condensing
Cooling	Free-air Convection
Capacitive Load (Vout)	470 $\mu\text{F}$ , Max.

**Note:** For Vin 48V series, pls. add a capacitor in the input. Cx = 4.7  $\mu\text{F}$ /100V ~ 47  $\mu\text{F}$ /100V.

**MECHANICAL DIMENSIONS & PIN CONNECTIONS****4 SIL package**

Pin #	STANDARD
1	-V Input
2	+V Input
3	-V Output
4	+V Output

Notes: All dimensions are typical in millimeters (inches). Tolerance x.xx =  $\pm 0.25$  ( $\pm 0.01$ )