

SECURVIEW

DC Power Converters

VS Series: Available in 12~24V and 24V~12V models

FEATURES

- Wide input voltage and stable output voltage
- 100% full rated power and 100% burn-in test
- High efficiency up to 95%
- Surface mountable
- Over current protection, Over voltage protection
- Over temperature protection
- Cooling by free air convection
- IP68 waterproof, Epoxy potting, Anti-vibration, Dustproof

MODEL OVERVIEW

| General Overview | | | | | | |
|------------------|---------------|----------------|--------------------------|------------------|--------------------------|----------------------|
| Model | Input Voltage | Output Voltage | Output Current (Typical) | Output Power Max | Ripple & Noise (Typical) | Efficiency (Typical) |
| VSPOWCONVERTER1 | 11~16VDC | 24VDC | 10A | 240W | 150 mVp-p | 95% |
| VSPOWCONVERTER2 | 18~35 VDC | 12VDC | 10A | 120W | 120 mVp-p | 94% |

| | Model | VSPOWCONVERTER1 (12V~24V) | | | | VSPOWCONVERTER2 (24V~12V) | | | |
|-----------------|---|--|--------|-------|--------|---------------------------|--------|-------|--------|
| | | Min | Typ | Max | Units | Min | Typ | Max | Units |
| Input | Parameter | | | | | | | | |
| | Operating Input Voltage | 11 | 12 | 16 | Vdc | 18 | 24 | 35 | Vdc |
| Output | Line Regulation (High line to low line) | | | ± 0.2 | % | | | ± 0.2 | % |
| | Load Regulation (Full load to zero load) | | | ± 0.2 | % | | | ± 0.2 | % |
| | Voltage accuracy | | | ± 1.5 | % | | | ± 1.5 | % |
| | Adjust Range | 23.9 | 24 | 24.1 | V | 11.9 | 12 | 12.1 | V |
| | Temperature Coefficient | | ± 0.03 | | % / °C | | ± 0.03 | | % / °C |
| | No load current | | ≤ 0.01 | | A | | ≤ 0.01 | | A |
| Protection | Output (Voltage protection) | 115 | | 140 | % | 115 | | 140 | % |
| | Output (Short circuit protection) | Continuous | | | | Continuous | | | |
| | Current Limit (% of nominal Output Current) | 100 | 110 | 120 | % | 100 | 110 | 120 | % |
| | Thermal shutdown case temp | | 85 | | °C | | 85 | | °C |
| | Cooling | Free air convection | | | | Free air convection | | | |
| Environment | Fuse (Built-in) | 40A | | | | 10A | | | |
| | Case Operating Temp | -40 | 25 | 85 | °C | -40 | 25 | 85 | °C |
| | Ambient Temp | -20 | | 60 | °C | -20 | | 60 | °C |
| | Storage Temp | -40 | | 105 | °C | -40 | | 105 | °C |
| | Humidity (Non-condensing) | | | 95 | % | | | 95 | % |
| Safety | Parameters | Test Conditions or Description | | | | | | | |
| | Safety Approvals | EN 61000-6-3:2007/A1 :2011/AC:2012 EN 55014-1:2006/A2:2011 EN 60950-1:2006/AC:2011 | | | | | | | |
| | Enclosures | IP68 | | | | | | | |
| General | Dimensions (L x W x H) | 74 x 74 x 31 mm | | | | 66 x 59 x 23 mm | | | |
| | Wire Length | 180mm | | | | 180mm | | | |
| | Case Material | Aluminium | | | | Aluminium | | | |
| | Net Weight | 280g | | | | 150g | | | |
| | Shipping Dimensions | 51 x 34.5 x 10.5 cm | | | | 51 x 35.5 x 19 cm | | | |
| Shipping Weight | 14.9kg | | | | 15.9kg | | | | |

