V3 SERIES 2 WATT

V3-SS/DS, V3-S/D

Single / Dual Output

- 1000 Vdc Isolation
- 7 Pin SIL // 14 Pin DIL 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 (%)	
V3-0505SS/DS	vuc	5	400	79	
V3-0509SS/DS		9	222	84	
V3-05030S/DS V3-0512SS/DS	5	12	167	86	
V3-0515SS/DS	J	15	133	84	
V3-0524SS/DS		24	83	85	
V3-0505S/D		±5	±200	73	
V3-0509S/D		±9	±111	78	
V3-0512S/D	5	±12	±84	80	
V3-0515S/D		±15	±67	82	
V3-0524S/D		±24	±42	81	
V3-1205SS/DS		5	400	79	
V3-1209SS/DS		9	222	84	
V3-1212SS/DS	12	12	167	86	
V3-1215SS/DS		15	133	85	
V3-1224SS/DS		24	83	84	
V3-1205S/D		±5	±200	75	
V3-1209S/D		±9	±111	81	
V3-1212S/D	12	±12	±84	83	
V2-1215S/D		±15	±67	85	
V2-1224S/D		±24	±42	86	
V3-2405SS/DS		5	400	82	
V3-2409SS/DS		9	222	84	
V3-2412SS/DS	24	12	167	88	
V3-2415SS/DS		15	133	85	
V3-2424SS/DS		24	83	86	
V3-2405S/D		±5	±200	77	
V3-2409S/D		±9	±111	83	
V3-2412S/D	24	±12	±84	84	
V3-2415S/D		±15	±67	85	
V3-2424S/D		±24	±42	88	
1. 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. Resistance 1000M Ω , Min. Capacitance 60 pF, Typ.

Output Specifications:

Voltage Accuracy: $\pm 3\%$, Max. Voltage Balance (Dual Outputs) $\pm 1\%$ Ripple and Noise (at 20 MHz BW) (\pm) 75mVp-p,Max. Short Circuit Protection Momentary Line Voltage Regulation $\pm 1.2\%$ / 1.0% of Vin Load Voltage Regulation $\pm 8\%$, Load= $20 \sim 100\%$ Temperature Coefficient $\pm 0.02\%$ /

General Specifications:

Efficiency 73% ~ 86% Switching Frequency 125KHz,Typ.

Environmental Specification:

Operating Temperature (Ambient) -40 ~ +85

Case Temperature 100 , Max.

Storage Temperature -40 ~ +125

Derating None Required

Humidity Up to 90%, Non-condensing

Cooling Free-air Convection

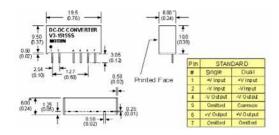
Capacitive Load:

Single Output $470\mu F$, Max. Dual Output $\pm 390\mu F$, Max.

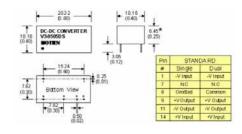
Note: For Vin 48V series, pls. add a capacitor in the input point. $Cx = 4.7 \mu F/100V \sim 47 \mu F/100V$.

MECHANICAL DIMENSIONS & PIN CONNECTIONS

7 Pin SIL package



14 Pin SIL package



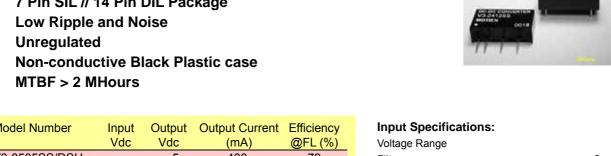
Notes: 1. All dimensions are typical in millimeters (inches). Tolerance x.xx = +/-0.25 (+/-0.01) 2. "*" SIL Package: 7.20 (0.28) for 48 Vdc variants; DIL Package: 6.88 (0.27) for 48 Vdc variants.

/3 SERIES 2 WATT

V3-SS/DSH, V3-S/DH

Single / Dual Output

- 3000 Vdc Isolation
- Up to 6000 Vdc Isolation
- 7 Pin SIL // 14 Pin DIL Package



Model Number	Input Vdc	Output Vdc	Output Current (mA)	Efficiency @FL (%)
V3-0505SS/DSH	vuc	5	400	79
V3-0509SS/DSH		9	222	84
V3-0512SS/DSH	5	12	167	86
V3-0515SS/DSH		15	133	84
V3-0524SS/DSH		24	83	85
V3-0505S/DH		±5	±200	73
V3-0509S/DH		±9	±111	78
V3-0512S/DH	5	±12	±84	80
V3-0515S/DH		±15	±67	82
V3-0524S/DH		±24	±42	81
V3-1205SS/DSH		5	400	79
V3-1209SS/DSH		9	222	84
V3-1212SS/DSH	12	12	167	86
V3-1215SS/DSH		15	133	85
V3-1224SS/DSH		24	83	84
V3-1205S/DH		±5	±200	75
V3-1209S/DH		±9	±111	81
V3-1212S/DH	12	±12	±84	83
V2-1215S/DH		±15	±67	85
V2-1224S/DH		±24	±42	86
V3-2405SS/DSH		5	400	82
V3-2409SS/DSH		9	222	84
V3-2412SS/DSH	24	12	167	88
V3-2415SS/DSH		15	133	85
V3-2424SS/DSH		24	83	86
V3-2405S/DH		±5	±200	77
V3-2409S/DH		±9	±111	83
V3-2412S/DH	24	±12	±84	84
V3-2415S/DH		±15	±67	85
V3-2424S/DH		±24	±42	88

- Input Voltage is from 5 V to 48 V and Output Voltage is from 3.3 V to 24 V.
- Suffix "H4" means 4 KV Isolation, suffix "H5" means 5.2 KV Isolation, suffix "H6" means 6 KV Isolation.

Voltage Range	10%
Filter	Capacitors

Isolation Specification:

3000 Vdc. Rated Voltage Resistance 1000M Ω, Min. Capacitance 60 pF, Typ.

Output Specifications:

Voltage Accuracy: ±3%, Max. Voltage Balance (Dual Outputs) ±1% Ripple and Noise (at 20 MHz BW) (±) 75mVp-p,Max. Short Circuit Protection Momentary Line Voltage Regulation ±1.2% / 1.0% of Vin Load Voltage Regulation ±8%, Load=20~100% Temperature Coefficient ±0.02% /

General Specifications:

Efficiency 73% ~ 86% Switching Frequency 125KHz,Typ.

Environmental Specification:

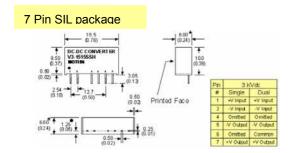
Operating Temperature (Ambient) ~ +85 -40 Case Temperature 100 , Max. Storage Temperature -40 ~ +125 Derating None Required Humidity Up to 90%, Non-condensing Cooling Free-air Convection

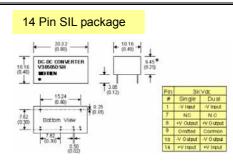
Capacitive Load:

Single Output 470µF, Max. **Dual Output** \pm 390 μ F, Max.

Note: For Vin 48V series, pls. add a capacitor in the input point. $Cx = 4.7 \mu F/100 V \sim 47 \mu F/100 V$.

MECHANICAL DIMENSIONS & PIN CONNECTIONS





Notes: 1. All dimensions are typical in millimeters (inches). Tolerance x.xx = +/-0.25 (+/-0.01)

2. "*" SIL Package: 7.20 (0.28) for 48 Vdc variants; DIL Package: 6.88 (0.27) for 48 Vdc variants. 3. " 2.00 (0.08) for Isolation > 3 KVdc.