



**5 - 6 Watt, 4:1 Wide Input
DC/DC Converters
Series DV64B-MED**



Features

- 5 – 6 Watt Isolated Output
- Regulated Outputs
- 4:1 Wide Input Range
- Isolation Voltage I/O 6000VDC
- Reinforced Insulation Rated for Working Voltage 300VAC
- 24-Pin DIP Package
- Efficiency up to 85%
- Operating Temp. to 71°C without Derating
- Continuous Short Circuit Protection
- EMI Meets EN55022 Class A
- CE Mark Meets 2004/108/EC
- 5 µA Patient Leakage Current
- Safety Meets UL60950-1 & UL60601-1

MODEL	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [mA] Max.	OUTPUT CURRENT [mA] Min. (4)	INPUT CURRENT NO LOAD [mA]	INPUT CURRENT FULL LOAD [mA]	EFF. [%] (2)	EFF. [%] (3)	CAP. Load [µF] MAX.	CASE
DV9-36-05S1000BMED	9 – 36	5	1000	100	10	260	80	81	1000	B
DV9-36-12S500BMED		12	500	50	10	295	85	85	500	
DV9-36-12D250BMED		± 12	±250	25	15	298	84	84	250	
DV9-36-15D200BMED		± 15	±200	20	15	298	84	84	200	
DV18-72-05S1000BMED	18 – 72	5	1000	100	5	130	80	81	1000	B
DV18-72-12S500BMED		12	500	50	5	149	84	85	500	
DV18-72-12D250BMED		± 12	±250	25	8	150	83	84	250	
DV18-72-15D200BMED		± 15	±200	20	8	149	84	85	200	

Note:

1. Nominal Input Voltage: 24 or 48Vdc
2. Measured at Nominal Input Voltage
3. Measured at 12VDC for 24Vin Models, 24VDC for 48Vin Models
4. Operation at lower min. load is safe but major deviations to specified data may occur.

INPUT SPECIFICATIONS:

Input Voltage Range.....	24Vin.....	9-36V
	48Vin.....	18-72V
Input Surge Voltage (100ms max.).....	24Vin.....	50Vdc max.
	48Vin.....	100Vdc max.
Under Voltage Protection	24Vin Power up.....	8,8V
	24Vin Power down.....	8V
	48Vin Power up.....	17V
	48Vin Power down.....	16V
Input Filter		Pi Type
Patient Leakage Current.....		5µA max.

OUTPUT SPECIFICATIONS:

Voltage Accuracy		+/-1,5%max.
Voltage Balance (Dual).....		+/-2,0%max.
Transient Response: 75% - 100% Step Load Change		
Error Band.....		±6% Vout nominal
Recovery Time		<500 µs
Temperature Coefficient.....		0,05%/°C
Ripple and Noise, 20 MHz BW (with 0,1µF MLCC)	5V.....	100mV p-p max.
	Other.....	1% p-p max.
Short Circuit Protection.....		continuous
Line Regulation	(From High Line to Low Line).....	±0,5%
Load Regulation	Single (From Full Load to 10% Load).....	±0,5%
	Dual (From Full Load to 25% Load).....	±1,0%
Start up time.....		1,5ms typ.

GENERAL SPECIFICATIONS:

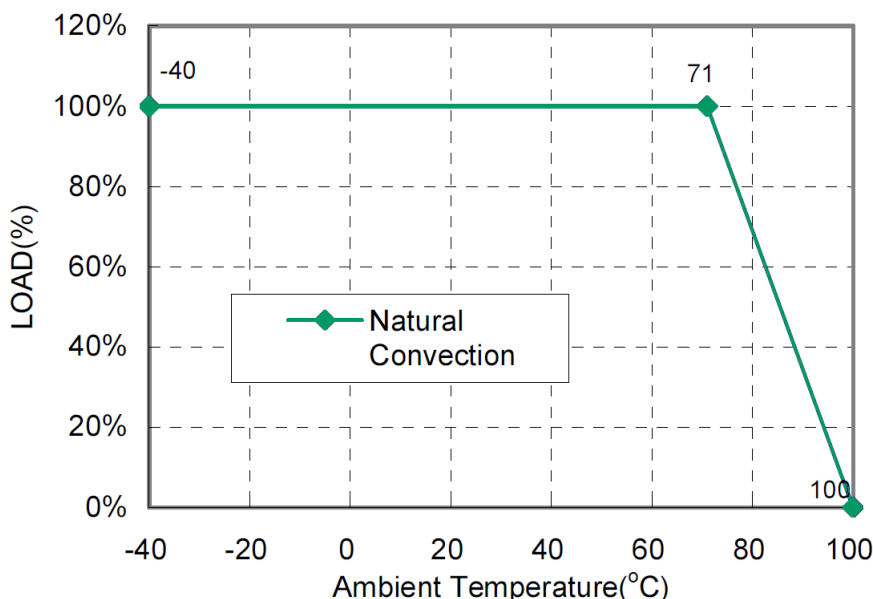
Efficiency.....		See Table
Isolation Voltage I/O		6000VDC min.
Isolation Resistance		10 ⁹ ohms
Isolation Capacitance		40pF max.
Reinforced Insulation.....	Creepage Distance.....	8mm min.
	Air Clearances.....	8mm min.
Switching Frequency.....		100KHz, min.
Operating Ambient Temperature Range		-40°C to +71°C
Derating, above 71°C.....		Linearly to Zero Power at 100°C
Case Temperature (Note 5).....		100°C max.
Storage Temperature Range		-40°C to +100°C
EMI Conductive meet.....		EN55022 Class A
Humidity		95% RH max. non condensing
Dimensions		(1,25x0,8x0,4 inches) 31,8x20,3x10,2 mm
Standard Models		Non-Conductive Black Plastic
Weight.....		12,5 g

Note:

5. Maximum Case Temperature under any operating condition should not be exceeded 100°C

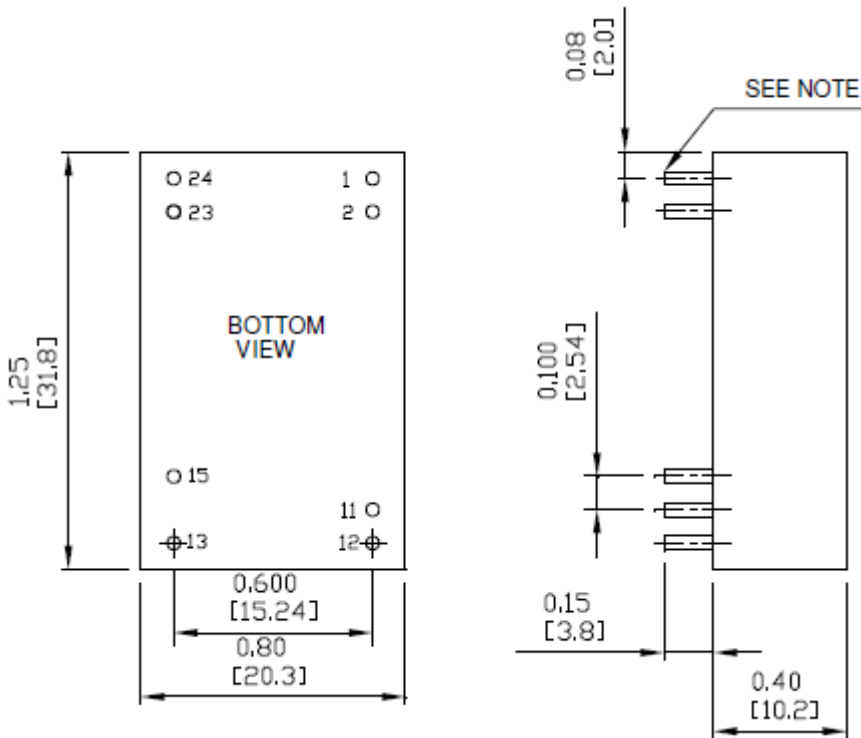
All Specifications Typical at Nominal Line, Full Load and 25°C. Unless Otherwise Noted

Typical Derating curve for Natural Convection



Technische Änderungen vorbehalten / Technical change reserved

Note:
 All Dimensions in Inches (mm),
 Pin Size is 0.02 Inch (0.5mm)DIA ±0.05
 Tolerances: Inches X.XX= ±0.02 and X.XXX= ±0.010
 Millimeters: X.X= ±0.5 and X.XX= ±0.25



PIN CONNECTION		
Pin	Single Output	Dual Output
1	+V Input	+V Input
2	+V Input	+V Input
11	NP	Common
12	-V Output	NP
13	+V Output	-V Output
15	NP	+V Output
23	-V Input	-V Input
24	-V Input	-V Input

*NP-NO PIN

*NC-NO CONNECTION WITH PIN