25 to 30 Watt, 2:1 Wide Input DC/DC Converters
Series DV302C

E357872

Features

- 25 – 30 Watt Isolated Output
- Regulated Outputs
- 2:1 Input Range
- CE Mark Meets 2004/108/EC
- 2" x 2" Six-Sided Shield Metal Case
- Efficiency to 88%
- Remote ON/OFF Control
- UL60950-1 Approval

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT [mA (max.)]	INPUT CURRENT NO LOAD [mA (typ.)]	INPUT CURRENT FULL LOAD [mA (typ.)]	EFF. [%]	CASE
DV9-18-05S5000C	9 – 18	5	5000	30	2675	84	C
DV9-18-12S2500C		12	2500	30	3050	88	
DV9-18-15S2000C		15	2000	30	3050	88	
DV9-18-05D2500C		± 5	±2500	35	2675	83	
DV9-18-12D1250C		±12	±1250	35	3050	88	
DV9-18-15D1000C		±15	±1000	35	3050	87	
DV9-18-05/12/12C		5/±12	3500/±310	35	2640	81	
DV9-18-05/15/15C		5/±15	3500/±250	35	2640	82	
DV9-18-3,3S5000C		3,3	5000	30	1860	80	
DV18-36-05S5000C	18 – 36	5	5000	30	1336	83	C
DV18-36-12S2500C		12	2500	30	1525	87	
DV18-36-15S2000C		15	2000	30	1525	87	
DV18-36-05D2500C		± 5	±2500	30	1336	82	
DV18-36-12D1250C		±12	±1250	30	1470	87	
DV18-36-15D1000C		±15	±1000	30	1470	86	
DV18-36-05/12/12C		5/±12	3500/±310	30	1320	82	
DV18-36-05/15/15C		5/±15	3500/±250	30	1320	82	
DV18-36-3,3S5000C		3,3	5000	30	920	79	
DV36-72-05S5000C	36 – 72	5	5000	20	660	83	C
DV36-72-12S2500C		12	2500	20	765	87	
DV36-72-15S2000C		15	2000	20	765	87	
DV36-72-05D2500C		± 5	±2500	25	660	82	
DV36-72-12D1250C		±12	±1250	25	735	87	
DV36-72-15D1000C		±15	±1000	25	735	87	
DV36-72-05/12/12C		5/±12	3500/±310	25	655	83	
DV36-72-05/15/15C		5/±15	3500/±250	25	655	82	
DV36-72-3,3S5000C		3,3	5000	20	460	79	

Note:
1. Nominal Input Voltage 12, 24 or 48Vdc

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INPUT SPECIFICATIONS:

Input Voltage Range ..... see table
Input Surge Voltage ..... 12V ..... 25Vdc max.
24V ..... 50Vdc max.
48V ..... 100Vdc max.
Input Filter ..... Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy ..... Single Output ..... ±2,0%max.
Dual +Output ..... ±2,0%max.
Dual –Output ..... ±3,0%max.
Triple, 5V ..... ±2,0%max.
Triple 12V/15V ..... ±5,0%max.
Voltage Balance, Dual Output ..... ±1,0%max.
Transient Response
Single 25% Step Load Change ..... <500µ sec.
Dual FL-1/2L±1% Error Band ..... <500µ sec.
External Trim Adj. Range ..... ±10%
Temperature Coefficient ..... ±0,02%/°C
Ripple and Noise, 20 MHz BW ..... 10mV RMS max. / 75mV p-p max.
Short Circuit Protection ..... Continuous
Line Regulation (From High Line to Low Line) ..... Single/Dual ..... ±0,5% max.
Triple ..... ±1,0% max.
Load Regulation (From Full Load to 25% Load) ..... Single/Dual ..... ±1,0% max.
Triple ..... ±5,0% max.
Start up time ..... 900ms typ.

GENERAL SPECIFICATIONS:

Efficiency ..... See Table
Isolation Voltage ..... 500VDC min.
Isolation Resistance ..... 10^9 ohms
Isolation Capacitance ..... 500pF typ.
Switching Frequency ..... 300KHz, min.
Case Grounding ..... Connected to Output Common
Operating Temperature Range ..... -25°C to +71°C
Derating above 60°C ..... Linearly to Zero Power at 100°C
Case Temperature ..... 100°C max.
Cooling ..... Natural Concection
Storage Temperature Range ..... -55°C to +105°C
Humidity ..... 95% RH max. Non condensing
MTBF (MIL-STD-217F,GB,25°C,Full Load) ..... 900KHrs typ.
EMI / RFI ..... Six-Sided Continuous Shield
Dimensions ..... 2 x 2 x 0,4 inches (50,8 x 50,8 x 10,2 mm)
Case Material ..... Black Coated Copper with Non-Conductive Base
Weight ..... 65 g

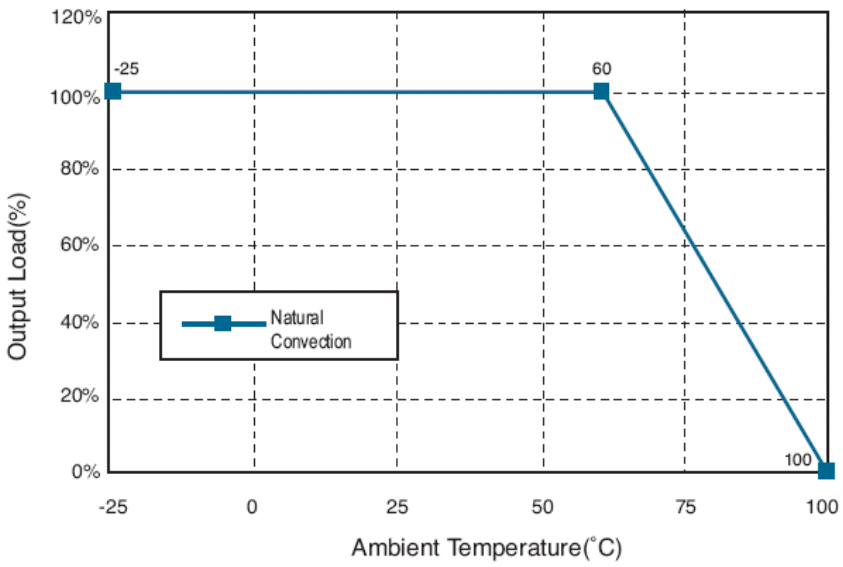
TRIPLE OUTPUT LOADING TABLE (1)

Output (Pin No.)	Voltage	Amperes	
		Min.(2)	Nom.
7	+5	0,50	3,5
8 & 5	+12 & -12	0,10	0,31
8 & 5	+15 & -15	0,10	0,25

NOTE:
1. Maximum total power from all outputs is limited to 25 watts but no output should be allowed to exceed ist maximum current.
2. Minimum current on each output is required to maintain specified regulation.

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

DERATING CURVE



Technische Änderungen vorbehalten / Technical change reserved

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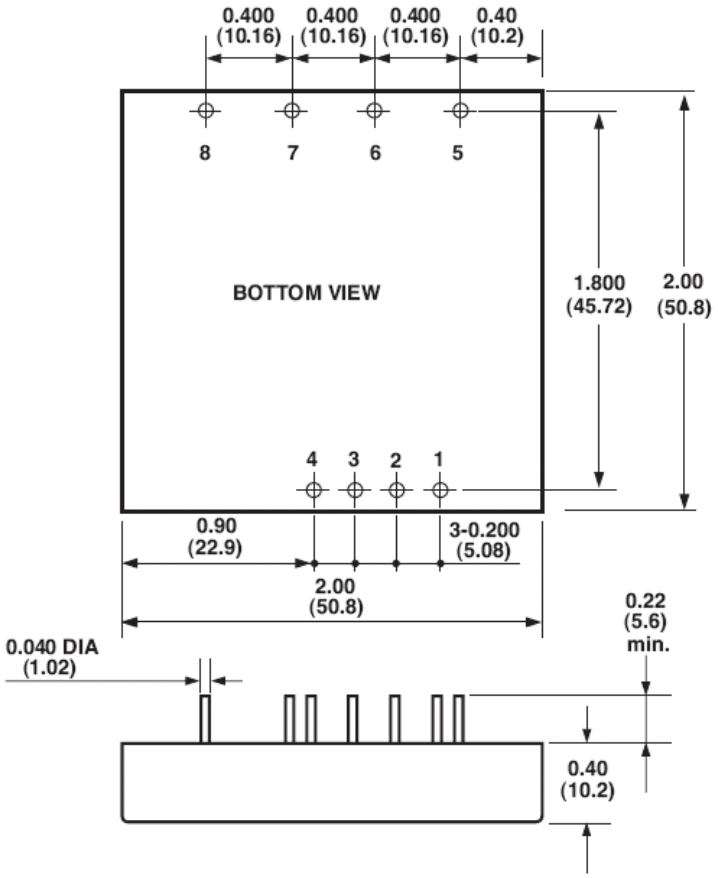
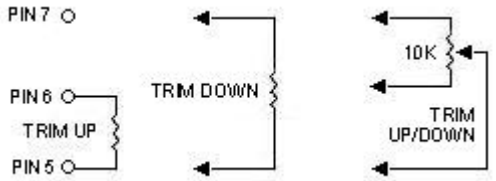
All dimensions in inches (mm); Toleranz: .xx±.04 (.x=±1.0), .xxx±.010 (.xx=±0.25)



PIN CONNECTION			
Pin	Single Output	Dual Output	Triple Output
1	Remote On/Off Control		
2	No Pin	No Pin	No Pin
3	-Vin	-Vin	-Vin
4	+Vin	+Vin	+Vin
5	Trim	Trim	-Aux. Out
6	-Vout	-Vout	Common
7	+Vout	Common	+5V Out
8	No Pin	+Vout	+Aux. Out

Remote On/Off Control	
Logic Compatibility	CMOS or Open Collector TTL
Ec-On	>+5,5Vdc to 75Vdc or Open Circuit
Ec-Off	<1,8 VDC
Shutdown Idle Current	10mA
Control Common	Referenced to Input Minus

External Output Trimming
Output may optionally be externally trimmed (±10%)with a fixed resistor or an external trimpot as shown.



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