



15 Watt, 4:1 Wide Input DC/DC Converters Series DV154C



Features

- 15 Watt Isolated Output
- Regulated Outputs
- 4:1 Input Range
- Continuous Short Circuit Protection
- CE Mark Meets 2004/108/EC
- 2" x 2" Six-Sided Shield Metal Case
- Efficiency to 84%
- Remote ON/OFF Control
- UL60950-1 Approval

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT Min. [mA]	OUTPUT CURRENT Max. [mA]	INPUT CURRENT NO LOAD [mA (typ.)]	INPUT CURRENT FULL LOAD [mA (typ.)]	EFF. [%]	CASE
DV9-36-05S3000C	9 – 36	5	0	3000	15	770	81	C
DV9-36-12S1250C		12	0	1250	15	745	84	
DV9-36-15S1000C		15	0	1000	15	760	82	
DV9-36-05D1500C		± 5	±0	±1500	20	770	81	
DV9-36-12D625C		±12	±0	±625	20	760	82	
DV9-36-15D500C		±15	±0	±500	20	750	83	
DV9-36-05/12/12C		5/±12	250/±100	1500/±310	20	780	80	
DV9-36-05/15/15C		5/±15	250/±100	1500/±250	20	780	80	
DV9-36-3,3S3000C		3,3	0	3000	15	530	78	
DV18-72-05S3000C		18 – 72	5	0	3000	10	385	
DV18-72-12S1250C	12		0	1250	10	375	83	
DV18-72-15S1000C	15		0	1000	10	380	82	
DV18-72-05D1500C	± 5		±0	±1500	15	385	81	
DV18-72-12D625C	±12		±0	±625	15	375	83	
DV18-72-15D500C	±15		±0	±500	15	385	81	
DV18-72-05/12/12C	5/±12		250/±100	1500/±310	15	385	81	
DV18-72-05/15/15C	5/±15		250/±100	1500/±250	15	390	80	
DV18-72-3,3S3000C	3,3		0	3000	10	270	77	

Note:

1. Nominal Input Voltage 24 or 48Vdc

Technische Änderungen vorbehalten / Technical change reserved

INPUT SPECIFICATIONS:

Input Voltage Range.....		See Table
Input Surge Voltage (100ms max.)	24V	50Vdc max.
	48V	100Vdc max.
Input Filter		Pi Type

OUTPUT SPECIFICATIONS:

Voltage Accuracy	Single Output	±1,0%max.
	Dual +Output	±1,0%max.
	Dual -Output	±3,0%max.
	Triple, 5V	±2,0%max.
	Triple 12V/15V	±3,0%max.
Voltage Balance, Dual Output at Full Load		±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	±0,2% max.
	Triple	±1,0% max.
	Single/Dual	±1,0% max.
Load Regulation (From Full Load to 25% Load)	Triple	±5,0% max.
Start up Time		300ms typ.

GENERAL SPECIFICATIONS:

Efficiency		See Table
Isolation Voltage I/O		500VDC min.
Isolation Resistance		10 ⁹ ohms
Isolation Capacitance		1000pF typ.
Switching Frequency		300KHz, min.
Case Grounding		Connected to Output Common
Operating Temperature Range		-25°C to +71°C
Derating, above 71°C		Linearly to Zero Power at 100°C
Case Temperature		100°C max.
Cooling		Natural Convection
Storage Temperature Range		-55°C to +105°C
Humidity		95% RH max. Non condensing
MTBF (MIL-STD-217F, GB, 25°C, Full Load)		1300kHrs 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		59 g

Note:

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

TRIPLE OUTPUT LOADING TABLE (1)			
Output (Pin No.)	Voltage	Amperes	
		Min.(2)	Nom.
7	+5	0,25	1,5
8 & 5	+12 & -12	0,10	0,31
8 & 5	+15 & -15	0,10	0,15

NOTE:

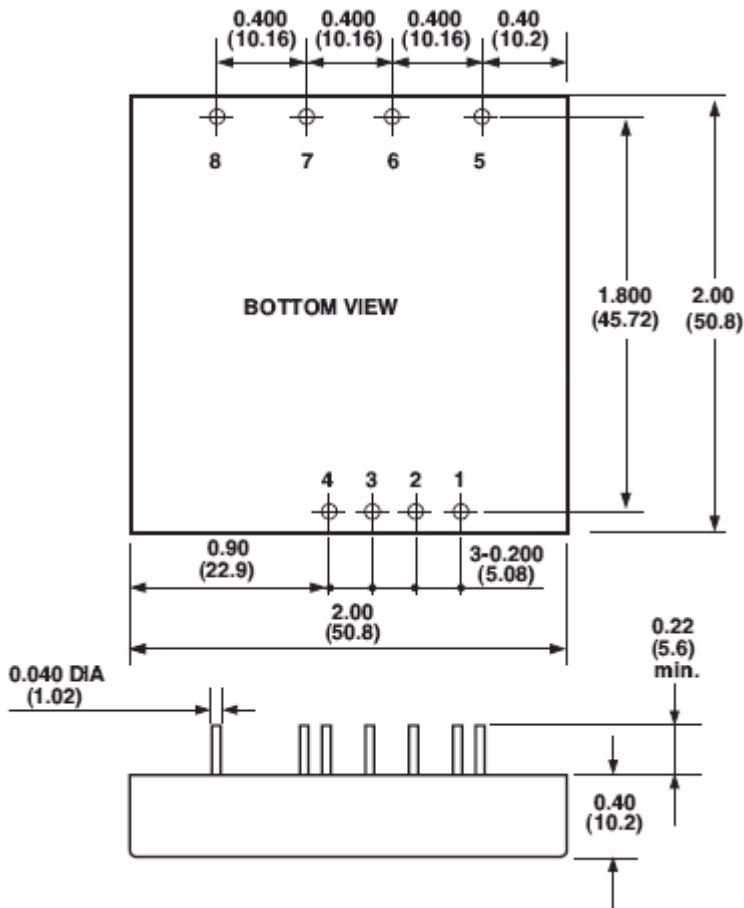
- Maximum total power from all outputs is limited to 15 watts but no output should be allowed to exceed its maximum current.
- Minimum current on each output is required to maintain specified regulation.

CASE C

Series DV154C

All dimensions in inches (mm)

Toleranz: Inches: .xx±.04, .xxx±.010 ; mm: .x±.1.0, .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 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 ($\pm 10\%$) with a fixed resistor or an external trimpot as shown.



Technische Änderungen vorbehalten / Technical change reserved