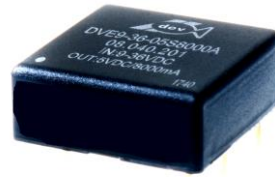




40 Watt, 4:1 Wide Input DC/DC Converters Series DVE404A



Features

- 40 Watt Isolated Output
- Regulated Outputs
- 4:1 Wide Input Range
- 1"x1" Shielded Metal Case
- Efficiency to 93%
- Remote On/Off
- I/O Isolation 1500 VDC
- Under Voltage Lock Out
- Continuous Short Circuit Protection
- OVP, OCP, OTP,
- Output Voltage Adjustable (Trim)
- Without Tantalum Capacitors Inside

MODEL NUMBER	INPUT VOLTAGE [VDC]	OUTPUT VOLTAGE [VDC]	OUTPUT CURRENT Max. [mA]	INPUT CURRENT [mA]	EFF. [%]	CASE
DVE9-36-05S8000A	9 – 36	5	8000	2429	91,5	A
DVE9-36-12S3330A		12	3330	2453	90,5	
DVE9-36-15S2670A		15	2670	2445	91	
DVE9-36-05D3000A		±5	±3000	1916	87	
DVE9-36-12D1250A		±12	±1250	1873	89	
DVE9-36-15D1000A		±15	±1000	1862	89,5	
DVE18-74-05S8000A	18 – 74	5	8000	1201	92,5	
DVE18-74-12S3330A		12	3330	1207	92	
DVE18-74-15S2670A		15	2670	1196	93	
DVE18-74-05D3000A		±5	±3000	947	88	
DVE18-74-12D1250A		±12	±1250	916	91	
DVE18-74-15D1000A		±15	±1000	916	91	

Technische Änderungen vorbehalten / Technical change reserved

INPUT SPECIFICATIONS:

Input Voltage Range.....	18V	9 – 36V
	36V	18 – 74V
Start-up Voltage.....	18V	9Vdc max.
	36V	18Vdc max.
Shut-down Voltage.....	18V	8,5Vdc max.
	36V	17Vdc max.
Short Circuit Input Power	Auto Recovery, Hiccup Mode 4000mW max.	
Input Filter	PI Type	
Positive Logic Remote ON/OFF Control:		
Logic Compatibility	Control Voltage Reference to -Vin	
Remote OFF	Control Voltage	0V min. / 0,8Vdc max.
	Current	-2mA min / 2mA max.
Remote ON.....	Control Voltage	3V min. / 15Vdc max.
	Current	-2mA min / 2mA max.
Negative Logic Remote ON/OFF Control:		
Logic Compatibility	Control Voltage Reference to -Vin	
Remote ON.....	Control Voltage	0V min. / 0,8Vdc max.
	Current	-2mA min / 2mA max.
Remote OFF	Control Voltage	3V min. / 15Vdc max.
	Current	-2mA min / 2mA max.

OUTPUT SPECIFICATIONS:

Voltage Accuracy.....	±1,0%max.	
Voltage Balance Dual.....	±2%max.	
Transient Recovery Time.....	50% - 75% Step Load Change	500µ sec.
Transient Response Deviation.....	50% - 75% Step Load Change	±6% Vo max.
Temperature Coefficient.....	0,03%/°C max.	
Ripple and Noise, 20 MHz BW	75mV p-p max.	
Short Circuit Protection	Auto-Recovery, Hiccup Mode	
Line Regulation.....	100% Load	±0,3% max.
Load Regulation	Io= 10% to 100% Load	±1% max.
Cross Regulation.....	one 100% Load, other 20% to 100% Load	±5% max.
Over Voltage Protection	Zener Clamp	
External Trim Adj. Range (Single Output only)	±10%	
Start up Time	60ms max.	

GENERAL SPECIFICATIONS:

Efficiency	See Table	
Isolation Voltage I/O	1500 VDC min.	
Isolation Resistance	10 ⁹ Ω min.	
Isolation Capacitance.....	2000pF typ.	
Switching Frequency.....	450KHz typ.	
Operating Ambient Temperature Range	-40°C to +80°C	
Derating	see derating curve	
Over Temperature Protection (Case)	115°C typ.	
Over Current Protection	110 min. to 180% Load max.	
Cooling.....	Natural Convection	
Storage Temperature Range	-55°C to +125°C	
Humidity	95% RH max. Non condensing	
Dimensions	1,00 x 1,00 x 0,40 inches (25,4 x 25,4 x 10,2 mm)	
Case Material	Anodized Aluminum Case with Plastic Base (meet UL94V-0)	
Weight.....	16 g	

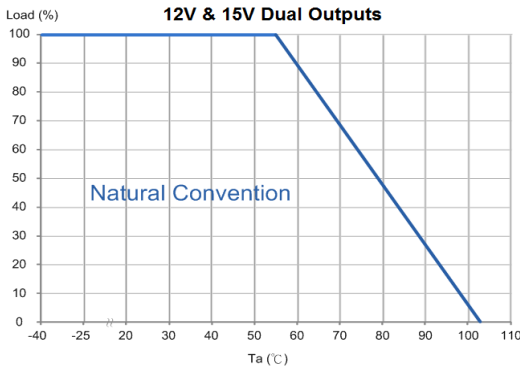
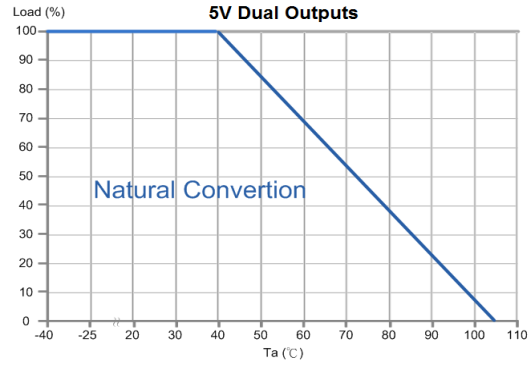
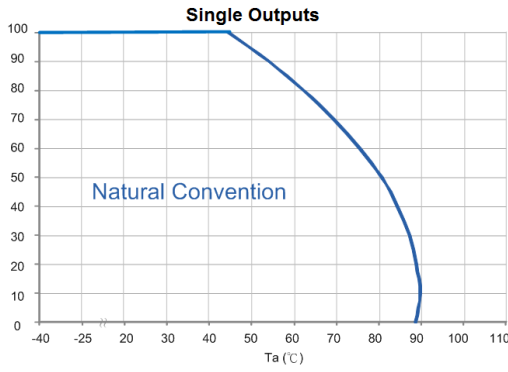
Note:

1. All specifications are measured at nominal input voltage, load between Min. and Max. Output current, and probe bandwidth should be under 20MHz, Ta = +25°C.
2. Suffix "N" to the model number with negative logic remote On/Off.

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

Derating Curve

Series DVE404A



CASE A

Series DVE404A

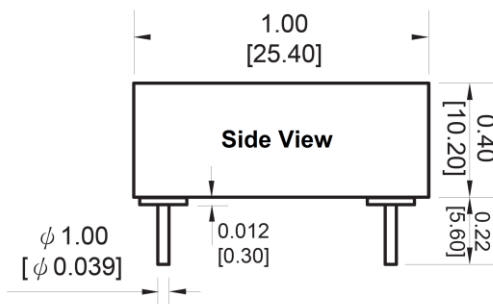
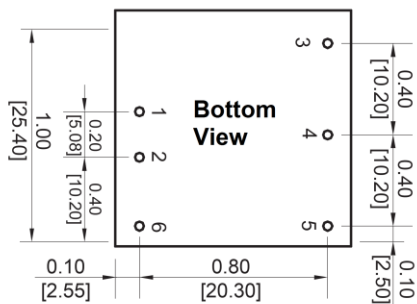
Note:

All dimensions in inch [mm]

Tolerance : ± 0.01 [± 0.25]

Pin pitch tolerance ± 0.01 [± 0.25]

Pin dimension tolerance ± 0.004 [± 0.1]



PIN CONNECTION DVE404A		
Pin	Single Output	Dual Output
1	+V Input	+V Input
2	-V Input	-V Input
3	+V Output	+V Output
4	Trim	Common
5	-V Output	-V Output
6	Remote ON/OFF	Remote ON/OFF

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