



6 Watts DIP Type 4:1 & 8:1 Wide Input DC - DC Converter

FEATURES

- ◆ Ultra Compact Size:1.0"x1.0"x0.4"
- ◆ No External Components Required Internal Filtering
- ◆ Power saving load for high efficiency at light load
- ◆ Overload Protection & UVLO
- ◆ 3000VDC I/O Isolation

SPECIFICATIONS

Input Voltage Range.....9-36V, 18-75V, 9-75V
Surge Vol.(100ms max.)..9-36Vin:50Vdc/18-75Vin:100Vdc
Input Filter.....Capacitor Network
Protection.....Fuse recommended
Voltage Accuracy.....±2% max.
Line Regulation¹.....± 0.5% max.
Load Regulation².....± 0.5% max.
Ripple & Noise(20MHzBW)³.....100mVp-p max.
Switching Frequency.....300KHz typ. (PWM)
Short Circuit Protection.....Continuous, recovery
OLP.....recovers automatically after fault condition is removed
OVP.....Clamp by TVS diode
Isolation Voltage (I/P-O/P).....3KVDC
Isolation Resistance.....1000M ohms/500VDC/25 °C/70% RH
Isolation Capacitance.....1000pF typ.
Operating Temperature.....-40 °C To +85 °C
Storage Temperature.....-55 °C To +125 °C
Temperature Coefficient.....± 0.05%/ °C
Cooling.....Free-Air Convection
Case Material.....Five-side shielded case
Case Temperature.....+105 °C max.
Case Size.....25.4*25.4*10.2mm
Weight.....20g Typ.

Note:

(1) High line to low line at rated load.

(2) Load Regulation is for output load current change from 5% to 100%.

(3) R & N are measured at 20MHz with 1uF ceramic capacitor connect to the output pins.

Model Number	Input Voltage (VDC)		Output Voltage (VDC)	Output Current (mA)	EFF. (%)	Capacitor Load(max.)
	Nominal	Range				
DA06-40y	24	9~36	3.3	0~1500	77	1800uF
DA06-41y	24	9~36	5	0~1200	81	1000uF
DA06-41By	24	9~36	9	0~667	83	680uF
DA06-42y	24	9~36	12	0~500	85	470uF
DA06-43y	24	9~36	15	0~400	85	220uF
DA06-49y	24	9~36	24	0~250	86	100uF
DA06-44y	24	9~36	± 5	± 0~600	81	± 470uF
DA06-45y	24	9~36	± 12	± 0~250	85	± 100uF
DA06-46y	24	9~36	± 15	± 0~200	85	± 100uF
DA06-46Ay	24	9~36	± 24	± 0~125	85	± 100uF
DA06-50y	48	18~75	3.3	0~1500	77	1800uF
DA06-51y	48	18~75	5	0~1200	81	1000uF
DA06-52y	48	18~75	12	0~500	85	470uF
DA06-53y	48	18~75	15	0~400	86	220uF
DA06-59y	48	18~75	24	0~250	86	100uF
DA06-54y	48	18~75	± 5	± 0~600	81	± 470uF
DA06-55y	48	18~75	± 12	± 0~250	85	± 100uF
DA06-56y	48	18~75	± 15	± 0~200	86	± 100uF
DA06-X0y	24	9~75	3.3	0~1500	77	1800uF
DA06-X1y	24	9~75	5	0~1200	81	1000uF
DA06-X1By	24	9~75	9	0~667	83	680uF
DA06-X2y	24	9~75	12	0~500	85	470uF
DA06-X3y	24	9~75	15	0~400	85	220uF
DA06-X9y	24	9~75	24	0~250	85	220uF
DA06-X4y	24	9~75	± 5	± 0~600	81	± 470uF
DA06-X5y	24	9~75	± 12	± 0~250	85	± 100uF
DA06-X6y	24	9~75	± 15	± 0~200	85	± 100uF

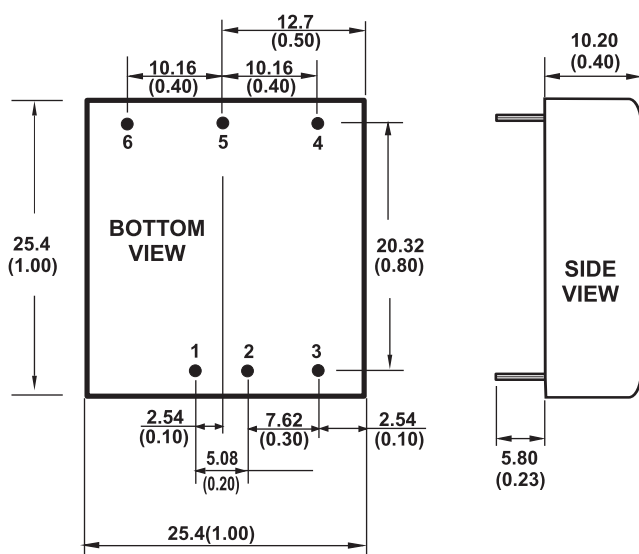
Remark:

* Efficiency and input current are measured at nominal input 24V and 48V @ full load.

* Suffix y = blank (no pin)

* Suffix y = R (Remote on/off)

MECHANICAL DRAWING (Unit: mm[inches])



Pin Connection

PIN	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	* NP / Remote On/Off	
4	-Vout	-Vout
5	NP	Common
6	+Vout	+Vout

* If Remote is not selected, there is no pin on corresponding number.

Derating Curve



Remote On/Off Control

Control Input	PIN 3	Control Common	PIN 2
Control Voltage		Converter Shutdown Idle Current	10mA
ON	> 2.5~6.0VDC or Open Circuit	Logic Compatibility	CMOS or Open Collector TTL
OFF	< 1.0VDC or Jumper to Pin 2		