

6 Watts DIP-24 Type 8:1 Wide input Range Regulated DC - DC Converter

FEATURES

- ◆ Industrial Standard DIP-24 Package with 8:1 Wide Input
- ◆ No External Components Required Internal Filtering
- ◆ Power saving load for high efficiency at light load
- ◆ Overload Protection & UVLO
- ◆ 3000VDC I/O Isolation

SPECIFICATIONS

Surge Vol. (100ms max.).....100Vdc
 Input Filter.....Pi 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 Convention
 Case Material.....Five-side shielded case
 Case Temperature.....+105 °C max.
 Case Size.....31.8*20.3*12.2mm
 Weight.....17.5g 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				
DW06-X0 ^y	24	9 ~ 75	3.3	0~1500	77	1800uF
DW06-X1 ^y	24	9 ~ 75	5	0~1200	81	1000uF
DW06-X1B ^y	24	9 ~ 75	9	0~667	83	680uF
DW06-X2 ^y	24	9 ~ 75	12	0~500	85	470uF
DW06-X3 ^y	24	9 ~ 75	15	0~400	85	220uF
DW06-X4 ^y	24	9 ~ 75	± 5	± 0~600	81	± 470uF
DW06-X5 ^y	24	9 ~ 75	± 12	± 0~250	85	± 100uF
DW06-X6 ^y	24	9 ~ 75	± 15	± 0~200	85	± 100uF

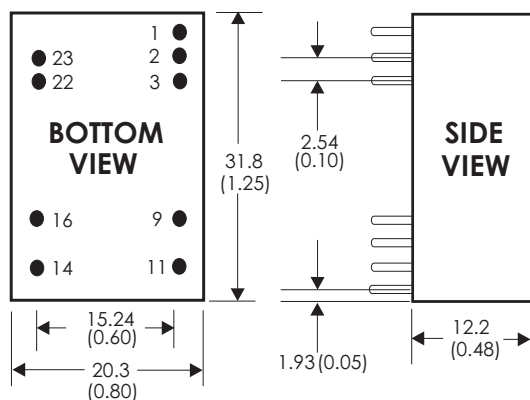
Remark:

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

* Suffix ^y = blank (no pin)

* Suffix ^y = R (Remote on/off)

MECHANICAL DRAWING [Unit: mm (inches)]

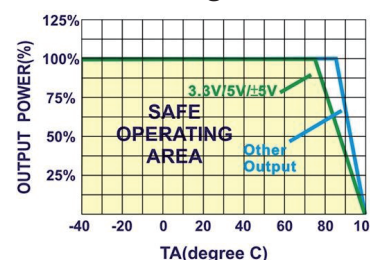


Pin Connection

PIN	SINGLE	DUAL
1	* NP / Remote On/Off	
2 & 3	-Vin	-Vin
9	NC	Common
11	NC	-Vout
14	+Vout	+Vout
16	-Vout	Common
22 & 23	+Vin	+Vin

* 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		