

**Features**

- 75 WATT DIL PACKAGE
- EFFICIENCY TO 91%
- PI INPUT FILTER
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOMIZED SOLUTIONS AVAILABLE
- REGULATED OUTPUT TYPE
- Remote Control: On/Off



**75 Watt DC/DC Converter**

WIDE INPUT VOLTAGE RANGE  
75 WATT DC-DC CONVERTER

**Input Specifications**

Input Voltage	:24Vdc	
Input Voltage Range	:9~36Vdc	
Remote ON/OFF	:Open or 3.5~12Vdc(DC/DC ON) :Short or 0~1.2Vdc(DC/DC OFF)	@Positive logic (Refer to -Vin PIN)
	:-0.5 ~ +0.5 mA	@Input current of Remote ON/OFF pin
	:3 mA TYP	@Remote off input current
Start up Voltage	:9Vdc MAX	
Under Voltage Shutdown	:7.5Vdc TYP	

**Output Specifications**

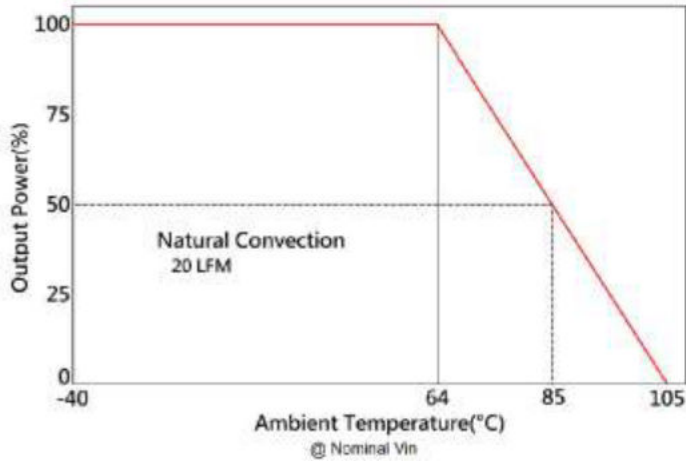
Output Voltage	:12Vdc	
Output Voltage Accuracy	:±1%	@11.88~12.12Vdc @Vin=9~36Vdc
Output Current	:6250mA	
Efficiency	:91% TYP	@Vin=24Vdc
Ripple / Noise	:125mVp-p MAX	@20MHz Bandwidth (With a 1uF MLCC and 33uF PolyTan)
Short Circuit Protection	:Continuous	@Hiccup, auto-recovery
Line Regulation	:±0.2% MAX	@LL TO HL ,Full Load
Load Regulation	:±0.2% MAX	@0%FL TO 100%FL
Output Power Protection	:120%~170%	@Continuous ,Auto-Recovery
Over Voltage Protection	:15Vdc TYP	

**General Specifications**

Operating Temperature Range	:-40°C ~ +64°C	@ Nominal Vin
Storage Temperature	:-55°C ~ +125°C	
Switching Frequency	:220KHz TYP	
Humidity	:95% MAX	
Isolation Voltage	:2250Vdc	
Isolation Resistance	:1000MΩ MIN	
Cooling	:Natural Convection	@20LFM
MTBF	: 354,784hrs	
Case Material	:Aluminum base-plate with plastic case	
Weight	:100g	

**Temperature Derating Graph**

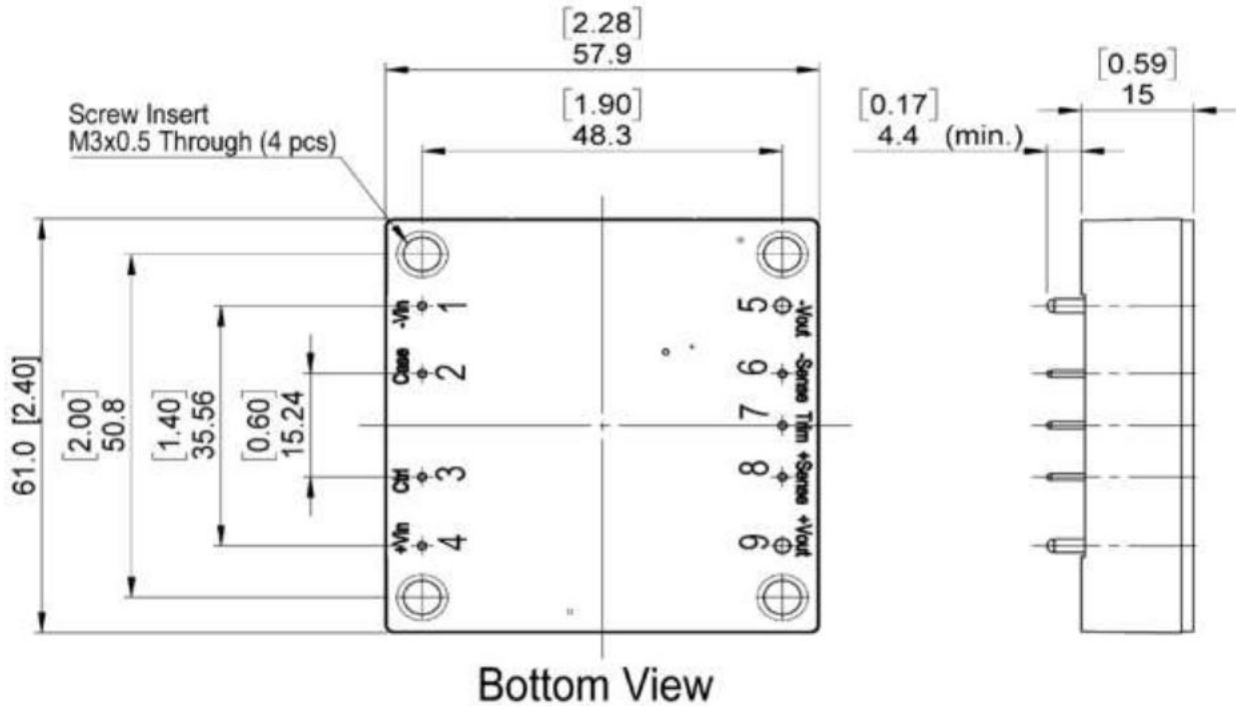
**Part Number**



**Y H B 75 - 24 S 12**  
**A B C D E F G**

- A:** YDS
- B:** Package Size
- C:** Input Range
- D:** Output Power
- E:** Input Voltage
- F:** Single Output
- G:** Output Voltage

**Outline Dimensions**



Unit : mm[inch]

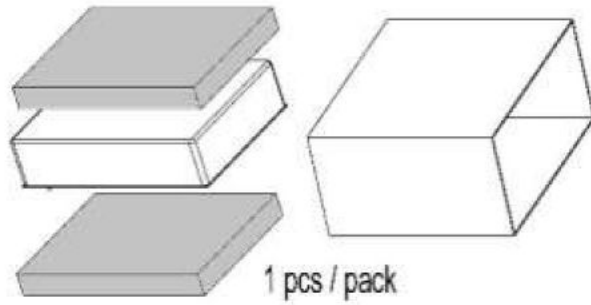
Tolerance : XX.X ±0.5    XX.XX ±0.25

Screw mounting hole size Φ3.5mm is recommend

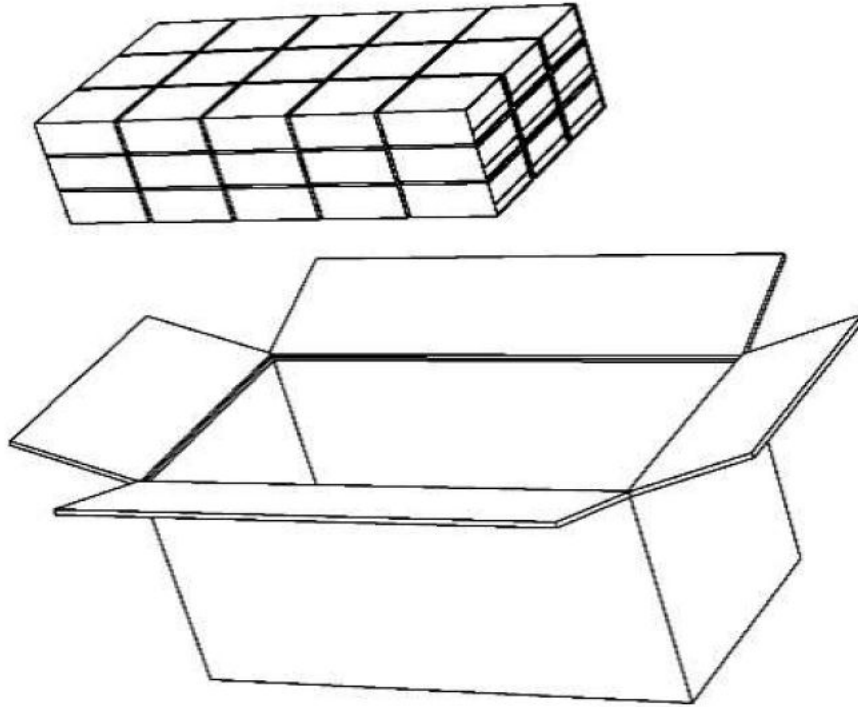
**PIN Assignment**

PIN	1	2	3	4	5	6	7	8	9
<b>FUNCTION</b>	-Vin	CASE	Remote On/Off	+Vin	-Vout	-Sense	Trim	+Sense	+Vout

**Packing Formation**



**3 x 5 x 5 = 75 packs / box**



**CARTON BOX : 46x24x22cm**

<b>Weight</b>	<b>:</b>	<b>100 grams/pcs</b>
<b>Box</b>	<b>:</b>	<b>75 pcs/Box</b>
<b>Total Weight</b>	<b>:</b>	<b>8.6 kilograms</b>