

Features

- 75 WATT DIL PACKAGE
- EFFICIENCY TO 92%
- 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	:48Vdc	
Input Voltage Range	:18~75Vdc	
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	:18Vdc MAX	
Under Voltage Shutdown	:16Vdc TYP	

Output Specifications

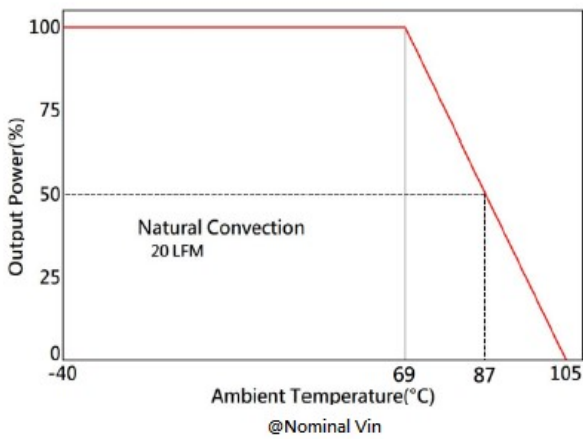
Output Voltage	:12Vdc	
Output Voltage Accuracy	:±1%	@11.88~12.12Vdc @Vin=18~75Vdc
Output Current	:6250mA	
Efficiency	:92% TYP	@Vin=48Vdc
Ripple / Noise	:125mVp-p MAX	@20MHz Bandwidth (With a 1uF MLCC and 33uF PolyTan)
Short Circuit Protection	:Continuous	@Hiccup, auto-recovery
Line Regulation	:±0.2% MAX	@LL TO HL ,Full Load
Load Regulation	:±0.2% MAX	@0%FL TO 100%FL
Output Power Protection	:120%~180%	@Continuous ,Auto-Recovery
Over Voltage Protection	:15Vdc TYP	

General Specifications

Operating Temperature Range	:-40°C ~ +69°C	without derating @ 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

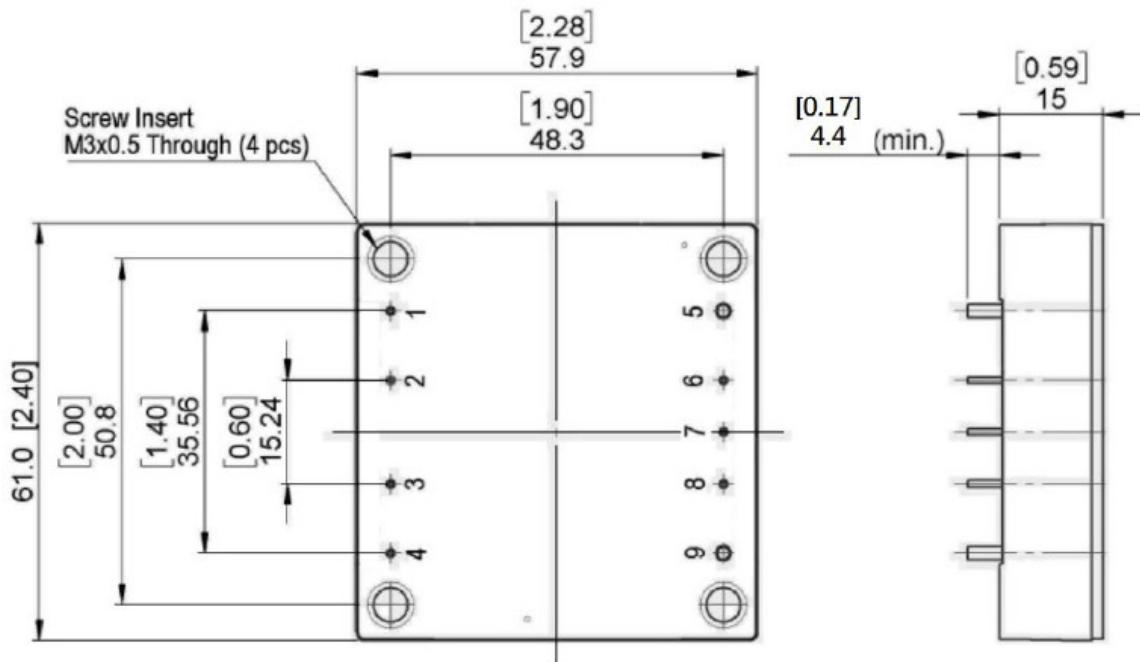
Part Number



Y H B 75 - 48 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]

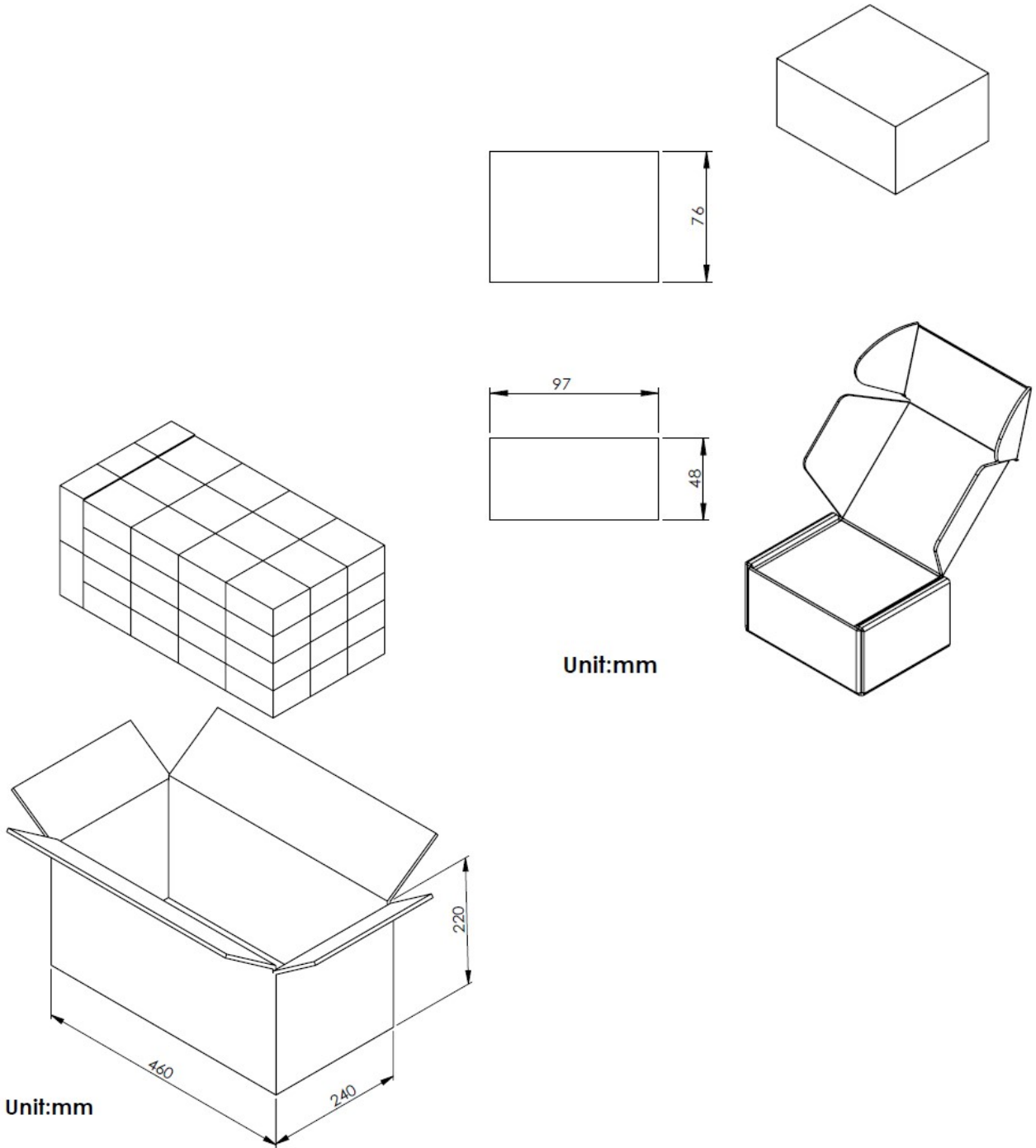
Tolerance : XX.X ±0.5 XX.XX ±0.25

Screw mounting hole size Φ3.5mm is recommend

PIN Assignment

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

Packing Formation



BOX	:	54 pcs	(max)
Weight	:	100 grams/pcs	
Total Weight	:	8.2KG/BOX	(max)