

Features

- 60 WATT DIL PACKAGE
- 4:1 WIDE INPUT VOLTAGES
- EFFICIENCY UP TO 92%
- PI INPUT FILTER
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOMIZED SOLUTIONS AVAILABLE
- REGULATED OUTPUT TYPE



60 Watt DC/DC Converter

WIDE INPUT VOLTAGE RANGE
60 WATT DC-DC CONVERTER



Input Specifications

Input Voltage	:48Vdc	
Input Voltage Range	:18~75Vdc	
Input Surge Voltage	:100Vdc Max.	@100ms Max.
Start-up Voltage	:18Vdc Max.	
Under Voltage Shutdown	:16Vdc Typ.	
Start-up Time (constant resistive load)	:30ms Typ.	@Power-up & Remote
Input Filter	:Internal PI Type	
Remote ON/OFF	:Open or 3.5~12Vdc(DC/DC ON) :Short or 0~1.2Vdc(DC/DC OFF) :-0.5 ~ +0.5mA :3mA Typ.	@Positive logic (Refer to -Vin Pin) @Input Current of Remote On/Off Pin @Remote Off Input Current

Output Specifications

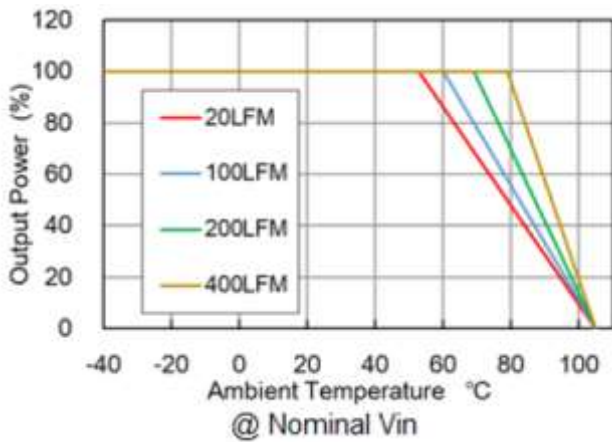
Output Voltage	:12dc	
Output Voltage Accuracy	:±2%	@11.76~12.24Vdc @Vin=18~75V
Output Current	:5000mA	
Efficiency	:92% Typ.	@Vin=48Vdc
Ripple & Noise	:150mVp-p Max.	@20MHz Bandwidth , with 1uF*1 MLCC and 10uF*1 TC
Output Power Protection	:180% Max.	@Hiccup, auto-recovery
Over Voltage Protection	:15Vdc Typ.	
Short Circuit Protection	:Continuous	@Hiccup, auto-recovery
Line Regulation	:±0.2% Max.	@Full Load
Load Regulation	:±0.5% Max.	@0% TO 100% Load
Voltage adjustability	:±10% Max.	
Temperature Coefficient	:±0.02%/°C Max.	
Transient Response Setting Time	:350us Typ.	@25% Load Step Change
Transient Response Deviation	:±5% Max.	@25% Load Step Change

General Specifications

Operating Temperature Range	: -40°C ~ +52.8°C	Without derating @ Nominal Vin
Operating Case Temperature	: +105°C Max.	
Over Temperature Protection	: +115°C Typ.	@ Case Temperature
Storage Temperature	: -55°C ~ +125°C	
Switching Frequency	: 280KHz Typ.	
Humidity	: 95% Max.	@ Non Condensing
Isolation Voltage	: 1600VDC	@ Input To Output
	: 1000VDC	@ Input(Output) To Case
Isolation Resistance	: 1000M Ω Min.	@ 500Vdc
Isolation Capacitance	: 2200pF Max.	
Cooling	: Natural Convection	@ 20LFM
Case Material	: Copper	
Potting material	: Silicone (UL94-V0)	
MTBF	: 2.59x10 ⁵ Hours	MIL-HDBK-217F @ 25°C
Weight	: 48g Typ.	

Temperature Derating Graph

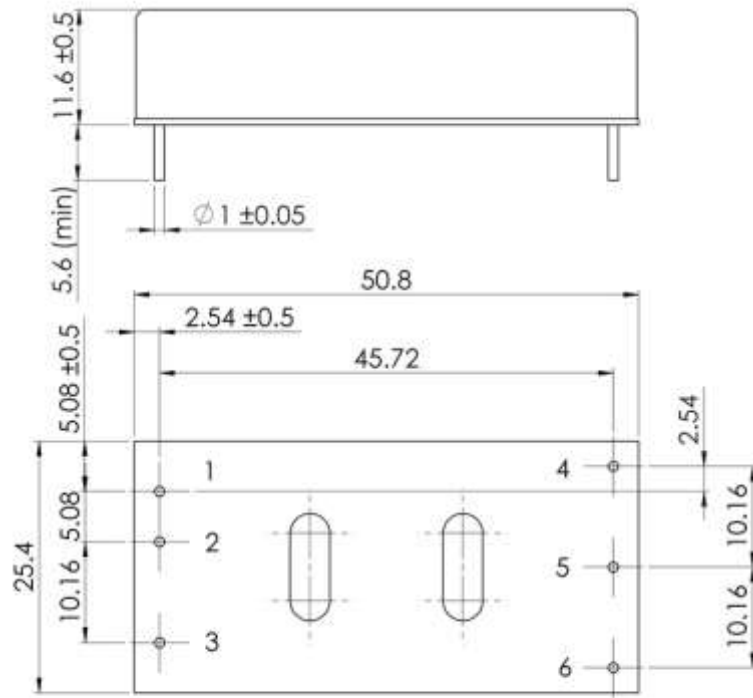
Part Number



YNB 60 - 48 S 12
A B C D E

- A: Series**
- B: Output Power**
- C: Input Voltage**
- D: Single Output**
- E: Output Voltage**

Outline Dimensions



BOTTOM VIEW

Unit : mm

Tolerance : XX.X ± 0.5 , XX.XX ± 0.25

PIN Assignment

PIN	1	2	3	4	5	6
FUNCTION	+Vin	-Vin	Remote On/Off	+Vout	-Vout	Trim