

**Features**

- 30 WATT DIL PACKAGE
- 8:1 WIDE INPUT VOLTAGES
- EFFICIENCY UP TO 91%
- PI INPUT FILTER
- 100% BURNED IN
- UL 94V-0 PACKAGE MATERIAL
- CUSTOMIZED SOLUTIONS AVAILABLE
- REGULATED OUTPUT TYPE



**30 Watt DC/DC  
Converter**

WIDE INPUT VOLTAGE RANGE

30 WATT DC-DC CONVERTER

**Input Specifications**

Input Voltage	:36Vdc	
Input Voltage Range	:9~75Vdc	
Input Surge Voltage	:100Vdc Max.	@100 ms Max.
Start-up Voltage	:9Vdc Max.	
Under Voltage Shutdown	:7.5Vdc Typ.	
Start-up Time (constant resistive load)	:35ms Typ.	@Power-up & Remote
Input Filter	:Internal PI Type	
Remote ON/OFF	:Open or 3.5~12Vdc(DC/DC ON)	@Positive logic
	:Short or 0~1.2Vdc(DC/DC OFF)	(Refer to –Vin PIN)
	:-0.5 ~ +0.5 mA	@Input current of Remote ON/OFF pin
	:3 mA Typ.	@Remote off input current

**Output Specifications**

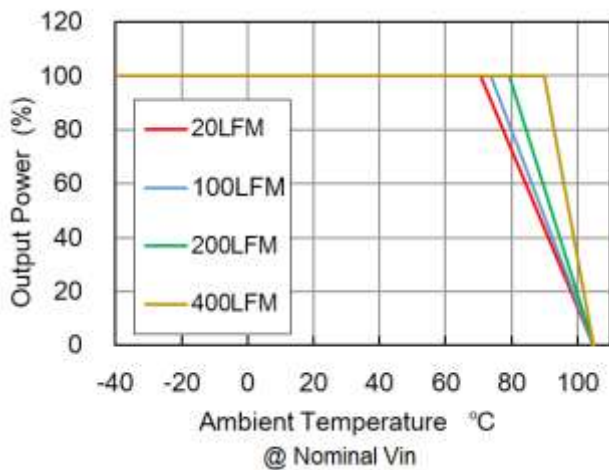
Output Voltage	:12Vdc	
Output Voltage Accuracy	:±2%	@11.76~12.24Vdc @Vin=9~75V
Output Current	:2500mA	
Efficiency	:91% Typ.	@Vin=36Vdc
Ripple / Noise	:120mVp-p Max.	@20MHz Bandwidth , with 1uF*1 MLCC
Output Power Protection	:190% Max.	@Hiccup, auto-recovery
Over Voltage Protection	:15Vdc Typ.	
Short Circuit Protection	:Continuous	@Hiccup, auto-recovery
Line Regulation	:±0.5% 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 ~ +70°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	: 210KHz Typ.	
Humidity	: 95% Max	@Non Condensing
Isolation Voltage	: 2250VDC	@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)	
Weight	: 42g Typ.	

**Temperature Derating Graph**

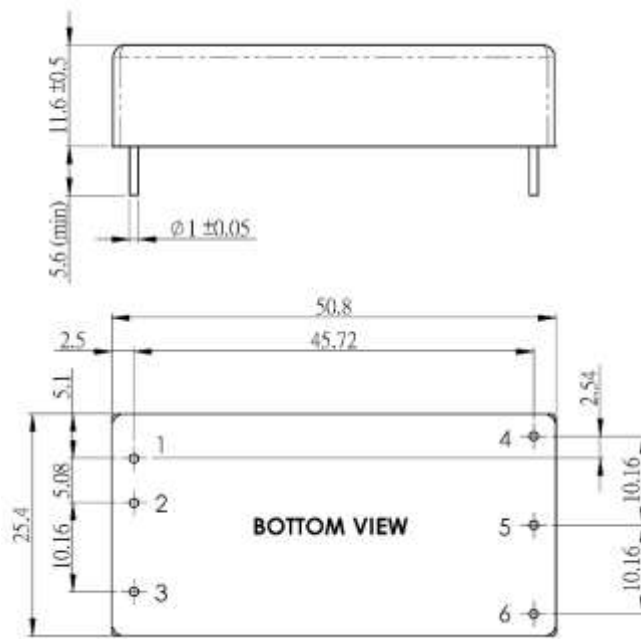
**Part Number**



**YNC30- 36 S 12**  
**A B C D**

**A: Series**  
**B: Input Voltage**  
**C: Single Output**  
**D: Output Voltage**

**Outline Dimensions**



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