

**Typical Performance**

**FEATURES**

- Wide Input voltage range (2:1)
- Typical Efficiency:85%
- Switching frequency: 300KHz
- Output Over current protect,Short circuit protection
- input under voltage protection,over voltage protection
- input-output isolated
- PCB Board in-line type installs
- High reliability
- Optional heat sink



3-Years Product Warranty

**Technology parameter** Test condition:General Nominal Line,Tc=25°C , Rated resistant load unless other wispecified

Input Features	Min	Nom	Max	Notes
	Test condition			
Start voltage	24V(18~36Vin)			18V
	48V(36~72Vin)			36V
Input under voltage protection	24V(18~36Vin)			17V
	48V(36~72Vin)			35V
	110V(72~144V)			110V
Input voltage (Vdc)	18	24	36	
	36	48	72	
	72	110	144	
Start time	Not capacitive load			20mS

**Remote On/Off Function**

CTL	CNT Pin connect -Vin			OFF
	CNT Pin left open			ON

## Output Feature

	Test condition		
Voltage accuracy	$I_o=0.1...1.0 \times I_{onom}, V_i=V_{rated}$		±1.0%
Line regulation	$V_{imin} \leq V_i \leq V_{imax}$		±0.2%
Load regulation	$I_o=0.1...1.0 \times I_{onom}, V_{imin} \leq V_i \leq V_{imax}, V_i=V_{rated}$		±0.5%
Ripple&noise	2-MHz Broadband		1%
Over current protection	$V_{imin} \leq V_i \leq V_{imax}$		120%
Peak Deviation	25% Rated Load Vary		±5.0%
Dynamic Response Setting Time			400us
Output Voltage Trim	$V_{imin} \leq V_i \leq V_{imax}$		10%
Switching frequency	$V_{imin} \leq V_i \leq V_{imax}$		300KHz

## General Feature

	Test condition		
Efficiency			85% typical
Board temperature	Industry level		-25°C ~ +55°C
Working environment temperature	Military level		-25°C ~ +85°C
Max Board temperature	Industry level		+85°C
	Military level		+105°C
Storage temperature	Industry level		-40°C ~ +105°C
	Military level		-50°C ~ +105°C
Relative humidity	No condensation		5%~90%RH
Temperature coefficient			±0.02%/°C
case material			aluminium baseplate
Isolated resistance	Input-Output		100M ohm
Vibration resistance	10~55Hz		5G
Over current mode	Full input range	Protection type : Hiccup mode, recovers automatically	
Cooling		Heatsink,nature cooling	
Case material		epoxy,Aluminum base plate	
Isolated Voltage	Input-output 1500Vdc; input-FG 1500Vdc,Output-FG 500Vdc		
MTBF	MIL-HDBK-217F2		5X10 <sup>6</sup> Hrs

## Product Nomination Method

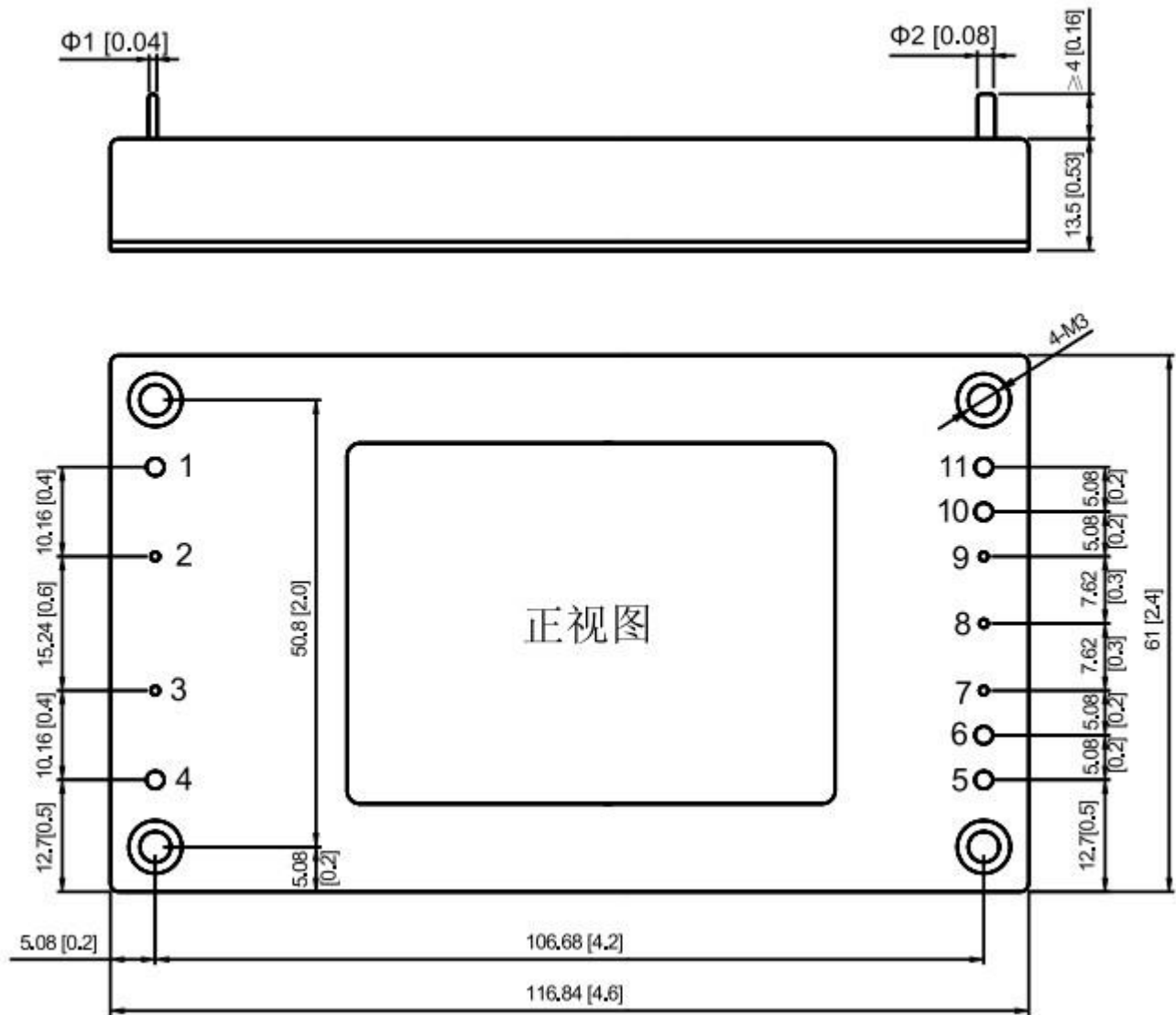
example	L D 250 – T 48 S 12						
	①	②	③	④	⑤	⑥	⑦
①	Wide input voltage: 2: 1			④	T:full brick package		
②	Power adaptation mode: D (DC-DC)			⑤	Normal input voltage		
③	Output power(W)			⑥	S=Single route output		
⑦	output voltage						

## Product Program

PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	A	V	A	V	A
LD250T-24S05	24 V(18~36V)	5	50				
LD250T-24S12		12	20.8				
LD250T-24S15		15	16.7				
LD250T-24S24		24	10.4				
LD250T-24S28		28	8.9				
LD250T-24S36		36	6.9				
LD250T-24S48		48	5.2				
LD250T-48S05	48V(36~72V)	5	50				
LD250T-48S12		12	20.8				
LD250T-48S15		15	16.7				
LD250T-48S24		24	10.4				
LD250T-48S28		28	8.9				
LD250T-48S36		36	6.9				
LD250T-48S48		48	5.2				
LD250T-72S12	72V(50~120V)	12	20.8				
LD250T-72S15		15	16.7				
LD250T-72S24		24	10.4				
LD250T-72S28		28	8.9				
LD250T-72S36		36	6.9				
LD250T-72S48		48	5.2				
LD250T-110S12	110V(72~144V)	12	20.8				

LD250T-110S15		15	16.7				
LD250T-110S24		24	10.4				
LD250T-110S28		28	8.9				
LD250T-110S36		36	6.9				
LD250T-110S48		48	5.2				

**Mechanical Dimension**



BOTTOM VIEW

Unit:mm(inch)

Tolerance:±0.2mm(±0.008inch)

**Mechanical Data**

WATT	L x W x H	Packing No.
250W	116.84*61*13.5mm	

**Pin Assignment**

Pin	1	2	3	4	5	6	7	8	9	10	11	
Single O/P	-Vin	CASE	REM	+Vin	+Vout	+Vout	+S	TRIM	-S	-Vout	-Vout	

\*Note: The power modules such as the definition of the pin does not match with the hand book, please refer to the actual item.

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