

Typical Performance

FEATURES

- Wide Input voltage range (2:1/4:1)
- Typical Efficiency:85%
- Switching frequency: 300KHz
- Working temperature:-40~+85℃
- 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℃, Rated resistant load unless other wisespecified

Input Features	Min	Nom	Max	Notes
	Test condition			
Start voltage	12V(9~18V)			9V
	18V(9~36V)			10V
	24V(18~36V)			18V
	36V(18~72V)			18V
	48V(36~72V)			36V
	110V(65~150V)			65V
	300V(200~400V)			200V
Input under voltage protection	12V(9~18V)			8V
	18V(9~36V)			8V
	24V(18~36V)			17V
	36V(18~72V)			17V
	48V(36~72V)			35V
	110V(65~150V)			64V

	300V(200~400V)			199V
Input voltage (Vdc)	9	12	18V	W 2:1
	9	18	36	W 4:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	65	110	150	W 2:1
	200	300	400	W 2:1
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	$I_o=0.1\ldots 1.0 \times I_{onom}, V_i=V_{rated}$		$\pm 1.0\%$
Line regulation	$V_{imin} \leq V_i \leq V_{imax}$		$\pm 0.2\%$
Load regulation	$I_o=0.1\ldots 1.0 \times I_{onom}, V_{imin} \leq V_i \leq V_{imax}, V_i=V_{rated}$		$\pm 0.5\%$
Ripple&noise	2-MHz Broadband		1%
Over current protection	$V_{imin} \leq V_i \leq V_{imax}$		120%
Peak Deviation	25% Rated Load Vary		$\pm 5.0\%$
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
Working environment temperature	Military level		-40℃ ~ +85℃
Max Board temperature			+105℃
Storage temperature	Military level		-50℃ ~ +105℃
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 ⁶ Hrs

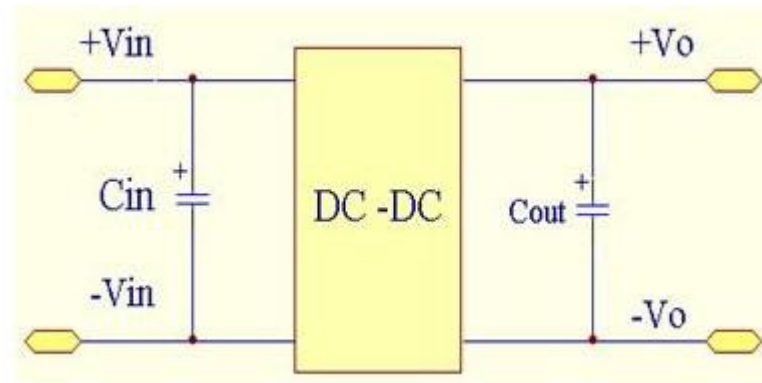
Product Nomination Method

example	L D 200 - G 48 S 12		
	① ② ③	④ ⑤	⑥ ⑦
①	Wide input voltage: 2: 1	④	G:1/4 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

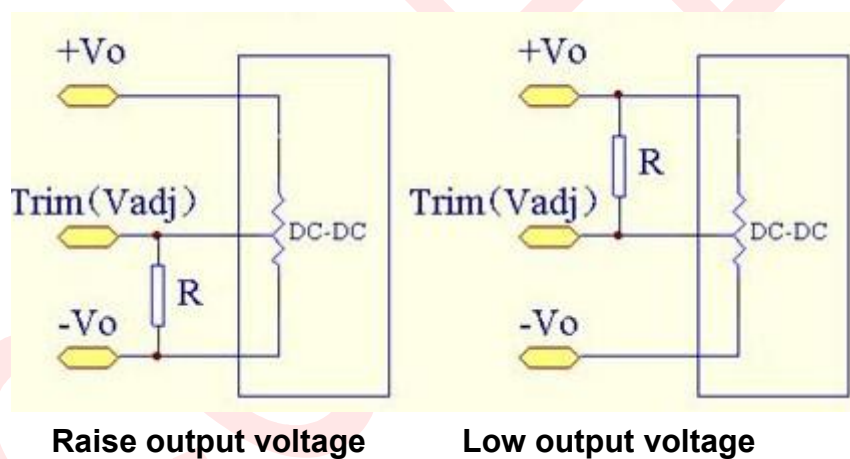
PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	A	V	A	V	A
LD100G-12S12H	12V(9~18V)	12V	8.33A				
LD100G-12S15H		15V	6.67A				
LD100G-12S24H		24V	4.17A				
LD100G-12S28H		28V	3.57A				
LD100G-12S48H		48V	2.08A				
LD100G-18S12H	18V(9~36V)	12V	8.33A				
LD100G-18S15H		15V	6.67A				
LD100G-18S24H		24V	4.17A				
LD100G-18S28H		28V	3.57A				
LD100G-18S48H		48V	2.08A				
LD100G-24S3V3H	24V(18~36V)	3.3V	30.3A				
LD100G-24S05H		5V	20.0A				

LD100G-24S12H		12V	8.33A				
LD100G-24S15H		15V	6.67A				
LD100G-24S24H		24V	4.17A				
LD100G-24S28H		28V	3.57A				
LD100G-24S48H		48V	2.08A				
LD100G-36S12H	36V(18~72V)	12V	8.33A				
LD100G-36S15H		15V	6.67A				
LD100G-36S24H		24V	4.17A				
LD100G-36S28H		28V	3.57A				
LD100G-36S48H		48V	2.08A				
LD100G-48S3V3H	48V(36~72V)	3.3V	30.3A				
LD100G-48S05H		5V	2.00A				
LD100G-48S12H		12V	8.33A				
LD100G-48S15H		15V	6.67A				
LD100G-48S24H		24V	4.17A				
LD100G-48S28H		28V	3.57A				
LD100G-48S48H		48V	2.08A				
LD100G-110S05H	110V(65~150V)	5V	20.0A				
LD100G-110S12H		12V	8.33A				
LD100G-110S15H		15V	6.67A				
LD100G-110S24H		24V	4.17A				
LD100G-110S28H		28V	3.57A				
LD100G-110S48H		48V	2.08A				
LD100G-300S05H	300V(200~400V)	5V	20.0A				
LD100G-300S12H		12V	8.33A				
LD100G-300S15H		15V	6.67A				
LD100G-300S24H		24V	4.17A				
LD100G-300S28H		28V	3.57A				
LD100G-300S48H		48V	2.08A				
Recommended Circuit							

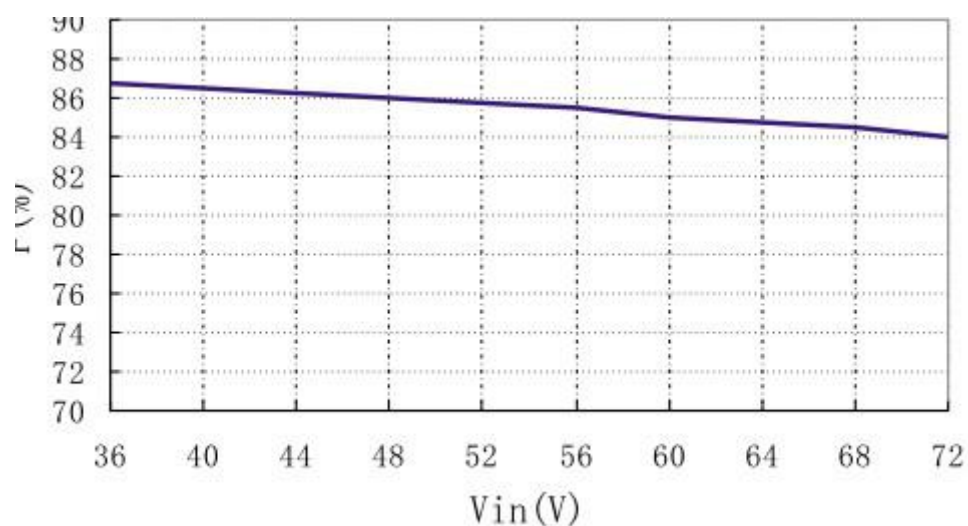


- (1) Power module with C_{in} is helpful to improve the electromagnetic compatibility, it is recommended to use $47\mu F \sim 100\mu F$ electrolytic capacitor
- (2) Power module with C_{out} is helpful to lower the output ripple
- (3) Power module output connects the digital circuit needs to add C_{out}
- (4) C_{out} is recommended to use $100\mu F/A$, the current is refers to the output current

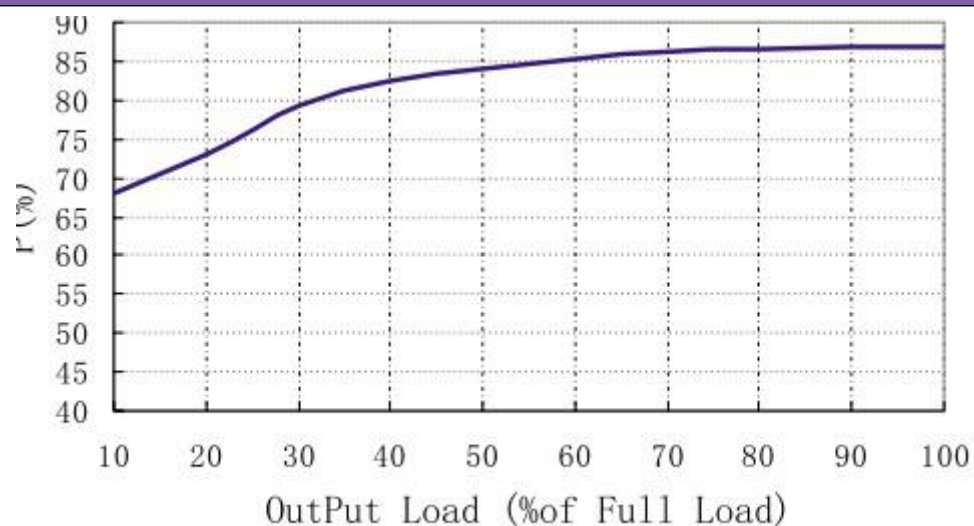
TRIM



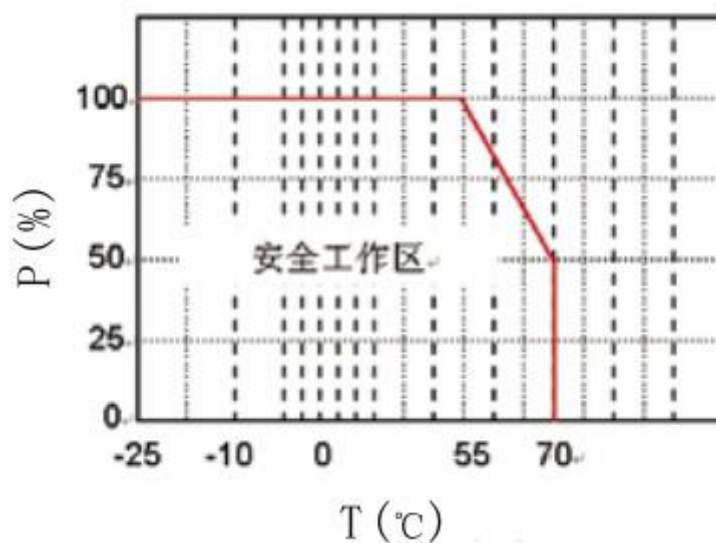
Input voltage--Efficiency



Output Load--Efficiency

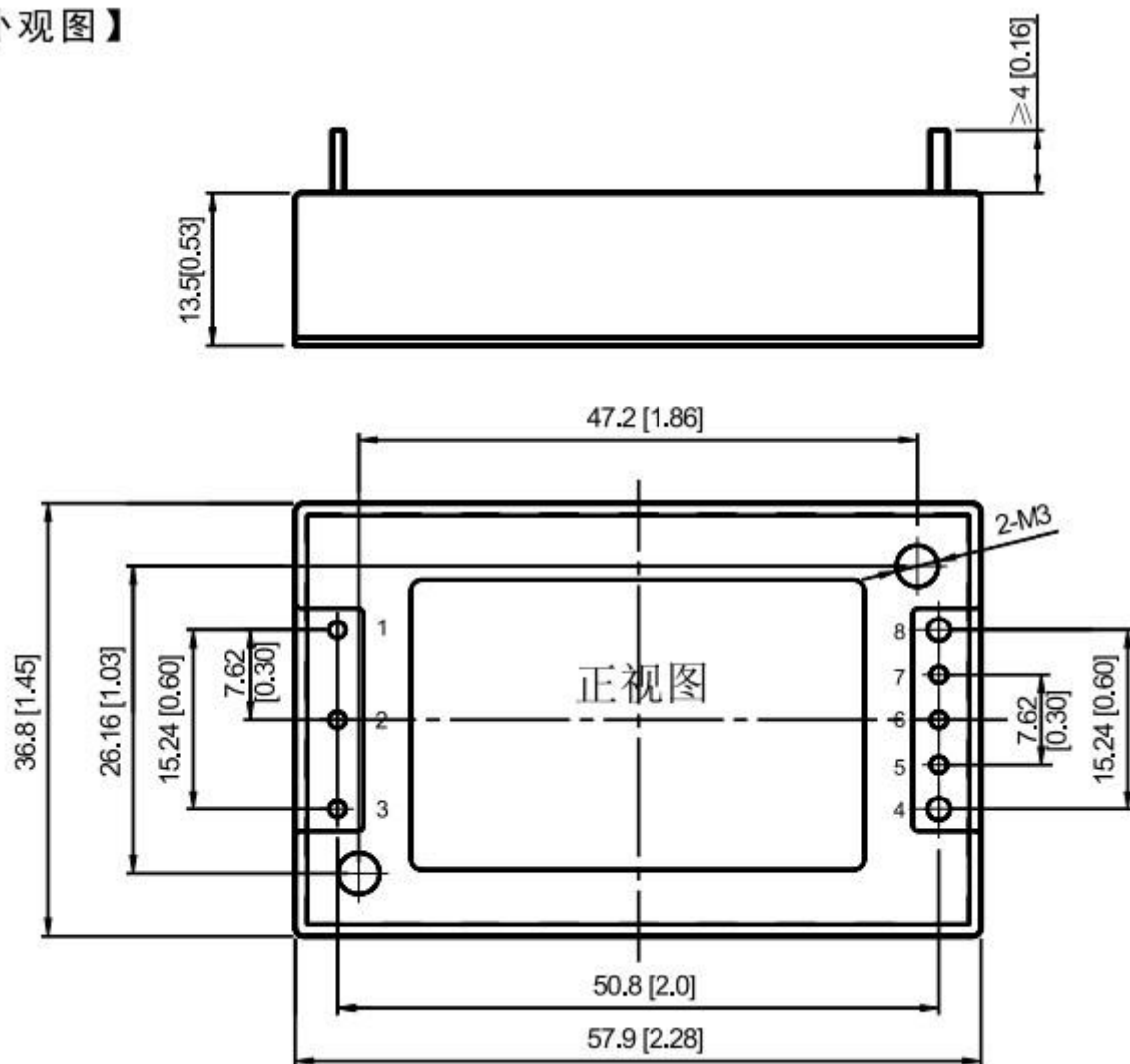


Temperature Curve



Mechanical Dimension

【外观图】



Unit:mm(inch)

Tolerance:±0.2mm(±0.008inch)

Mechanical Data

WATT	L x W x H	Packing No.
100W	57.9*36.8*12.7mm	

Pin Assignment

Pin	1	2	3	4	5	6	7	8		
Single O/P	-Vin	CTL	+Vin	+Vo	+S	TRIM	-S	-Vo		

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