

Typical Performance

FEATURES

- Wide Input voltage range (2:1)
- Typical Efficiency:85%
- Switching frequency: 300KHz
- Working temperature:-40~+85°C
- 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	96V(65~150Vin)			65V
	110V(82~180Vin)			82V
	280V(200~400Vin)			200V
Input voltage (Vdc)	65	96	150	W 2:1
	82	110	180	W 2:1
	200	300	400	W 2:1
Start time	Not capacitive load			20mS

Remote On/Off Function

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

Output Feature

	Test condition		
Voltage accuracy	$I_o=0.1...1.0 \times I_{nom}, V_i=V_{rated}$		±1.0%
Line regulation	$V_{imin} \leq V_i \leq V_{imax}$		±0.2%
Load regulation	$I_o=0.1...1.0 \times I_{nom}, V_{imin} \leq V_i \leq V_{imax}, V_i=V_{rated}$		±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
Working environment temperature	Military level		-40°C ~ +85°C
Max Board temperature			+105°C
Storage temperature	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 ⁶ Hrs

Product Nomination Method

example	L D 200 – H 48 S 12 ① ② ③ ④ ⑤ ⑥ ⑦		
①	Wide input voltage: 2: 1	④	H:high voltage input

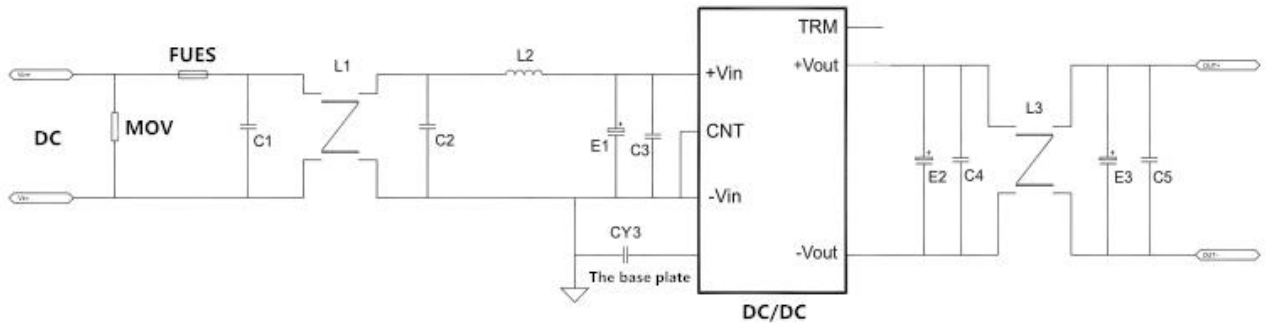
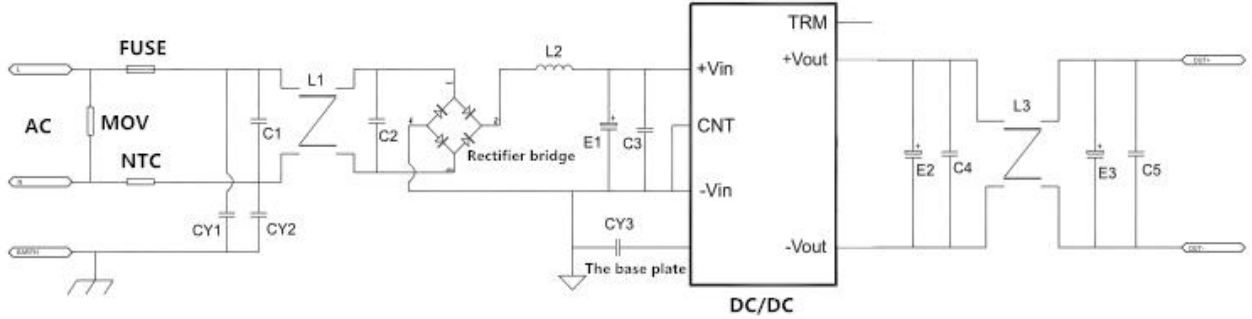
②	Power adaptation mode: D (DC-DC)	⑤	Normal input voltage
③	Output power(W)	⑥	S=Single route output
⑦	output voltage		

Product Program

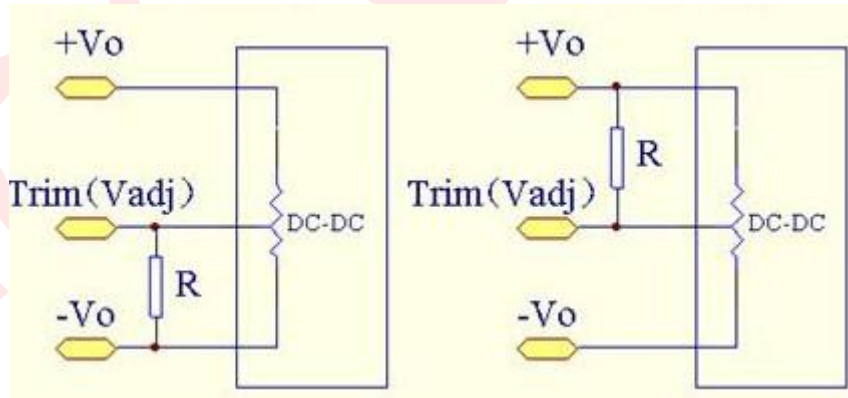
PART #	Input voltage range	Output voltage / current				
		VO1		VO2		Typical Efficiency
		V	A	V	A	
LD75H-96S05H	96V(65~150V)	5V	15A			79
LD75H-96S12H		12V	6.25A			81
LD75H-96S15H		15V	5A			82
LD75H-96S24H		24V	3.12A			83
LD75H-96S28H		28V	2.68A			84
LD75H-96S48H		48V	1.56A			84
LD75H-110S05H	110V(82~180V)	5V	15A			79
LD75H-110S12H		12V	6.25A			81
LD75H-110S15H		15V	5A			82
LD75H-110S24H		24V	3.12A			83
LD75H-110S28H		28V	2.68A			84
LD75H-110S48H		48V	1.56A			84
LD75H-300S05H	300V(200~400V)	5V	15A			80
LD75H-300S12H		12V	6.25A			81
LD75H-300S15H		15V	5A			82
LD75H-300S24H		24V	3.12A			83
LD75H-300S28H		28V	2.68A			84
LD75H-300S48H		48V	1.56A			84

Recommended Circuit

Rated voltage	Fuse	voltage dependent resistor	rectifier bridge	NTC	C1C2C3	CY1CY2CY3	E1
110V	2A	300V	5A	12Ω/Φ9	105/200V	472/3KV	100μF/200V
220V	2A	560V	3A	20Ω/Φ9	105/400V	472/3KV	100μF/400V



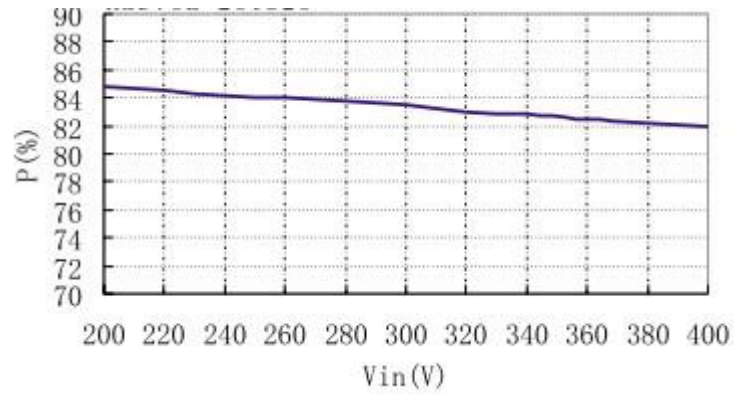
TRIM



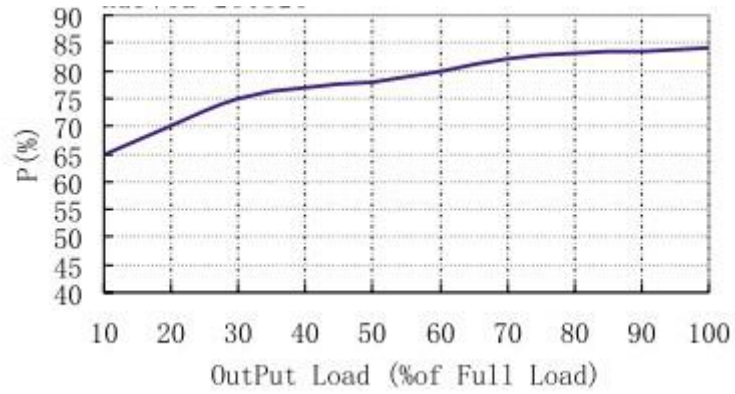
Raise output voltage

Low output voltage

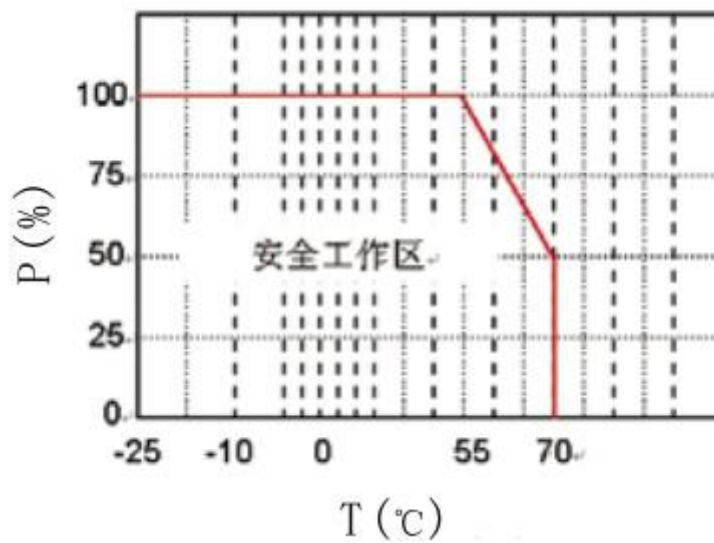
Input voltage--Efficiency



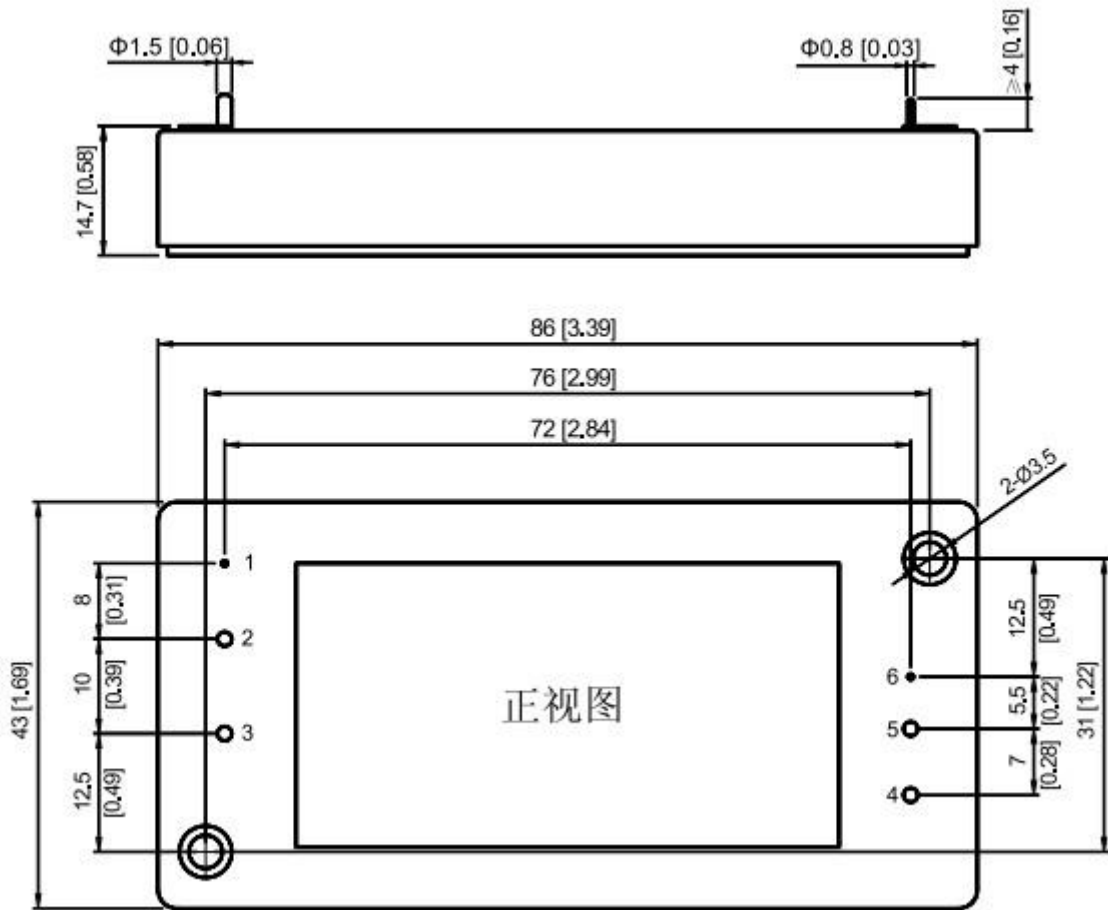
Output Load--Efficiency



Temperature Curve



Mechanical Dimension



BOTTOM VIEW

Unit:mm(inch)

Tolerance:±0.2mm(±0.008inch)

Mechanical Data

WATT	L x W x H	Packing No.
75W	86*43*14.7mm	

Pin Assignment

Pin	1	2	3	4	5	6				
Single O/P	CTL	-Vin	+Vin	+Vout	-Vout	TRIM				

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