

Typical Performance

FEATURES

- Wide Input voltage range (2:1)
- Typical Efficiency:85%
- Switching frequency: 300KHz
- Working temperature:-40~+85℃
- Output Overcurrent protect,Short circuit protection
- input under voltage protection,output 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	96V(65~150Vin)			65V
	110V(82~180Vin)			82V
	280V(200~400Vin)			200V
Input under voltage protection	96V(65~150Vin)			60V
	110V(82~180Vin)			70V
	280V(200~400Vin)			180V
Input voltage (Vdc)	65	96	150	W 2:1
	82	110	180	W 2:1
	200	280	400	W 2:1
Start time	Not capacitive load			20mS
Remote On/Off Function				
CTL	CNT Pin connect -Vin			ON

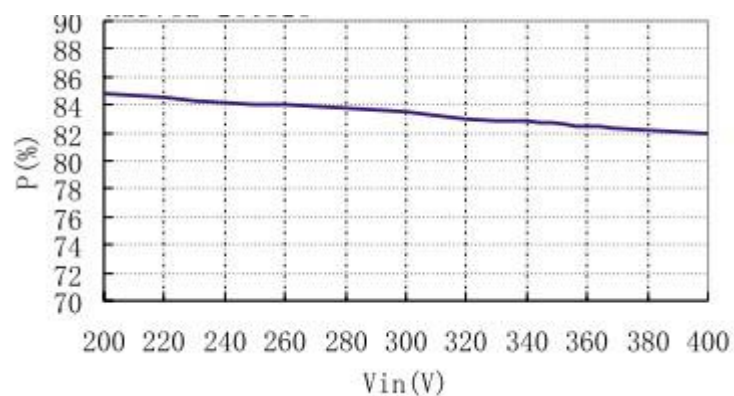
	CNT Pin left open			OFF
Output Feature				
	Test condition			
Voltage accuracy	$I_o=0.1\ldots 1.0\times I_{onom}, V_i=V_{rated}$			$\pm 1.0\%$
Line regulation	$V_{imin}\leq V_i\leq V_{imax}$			$\pm 0.2\%$
Load regulation	$I_o=0.1\ldots 1.0\times I_{onom}, V_{imin}\leq V_i\leq V_{imax}, V_i=V_{rated}$			$\pm 0.5\%$
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				$\pm 0.02\%/^{\circ}\text{C}$
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					

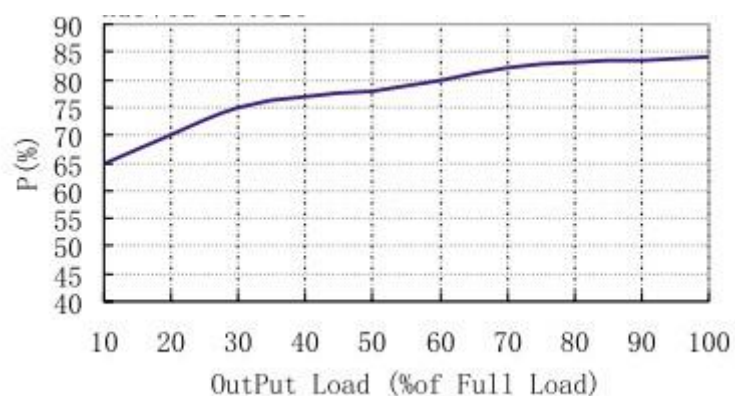
Product Program

PART #	Input voltage range	Output voltage / current				
		VO1		VO2		Typical Efficiency
		V	A	V	A	%
LD400H-96S12H	96V(65~150V)	12V	33.3A			89
LD400H-96S15H		15V	26.7A			89
LD400H-96S24H		24V	16.7A			89
LD400H-96S28H		28V	14.3A			89
LD400H-96S48H		48V	8.3A			89
LD400H-110S12H	110V(82~180V)	12V	33.3A			89
LD400H-110S15H		15V	26.7A			89
LD400H-110S24H		24V	16.7A			89
LD400H-110S28H		28V	14.3A			89
LD400H-110S48H		48V	8.3A			89
LD400H-300S12H	300V(200~400V)	12V	33.3A			89
LD400H-300S15H		15V	26.7A			89
LD400H-300S24H		24V	16.7A			89
LD400H-300S28H		28V	14.3A			89
LD400H-300S48H		48V	8.3A			89

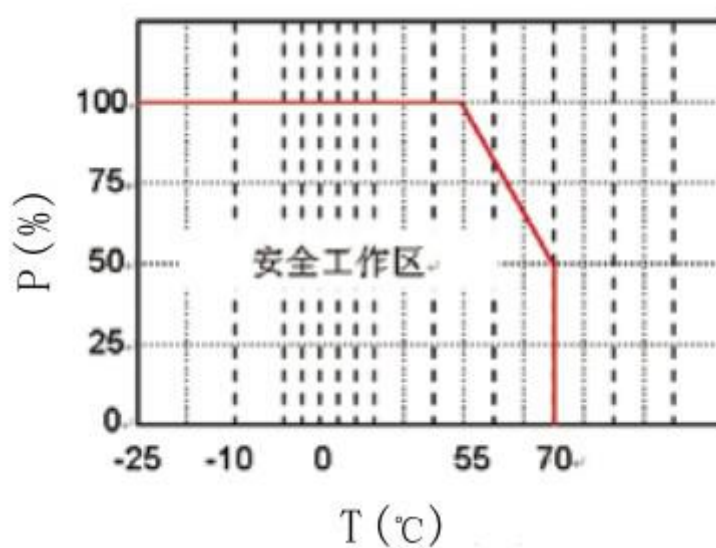
Recommended Circuit



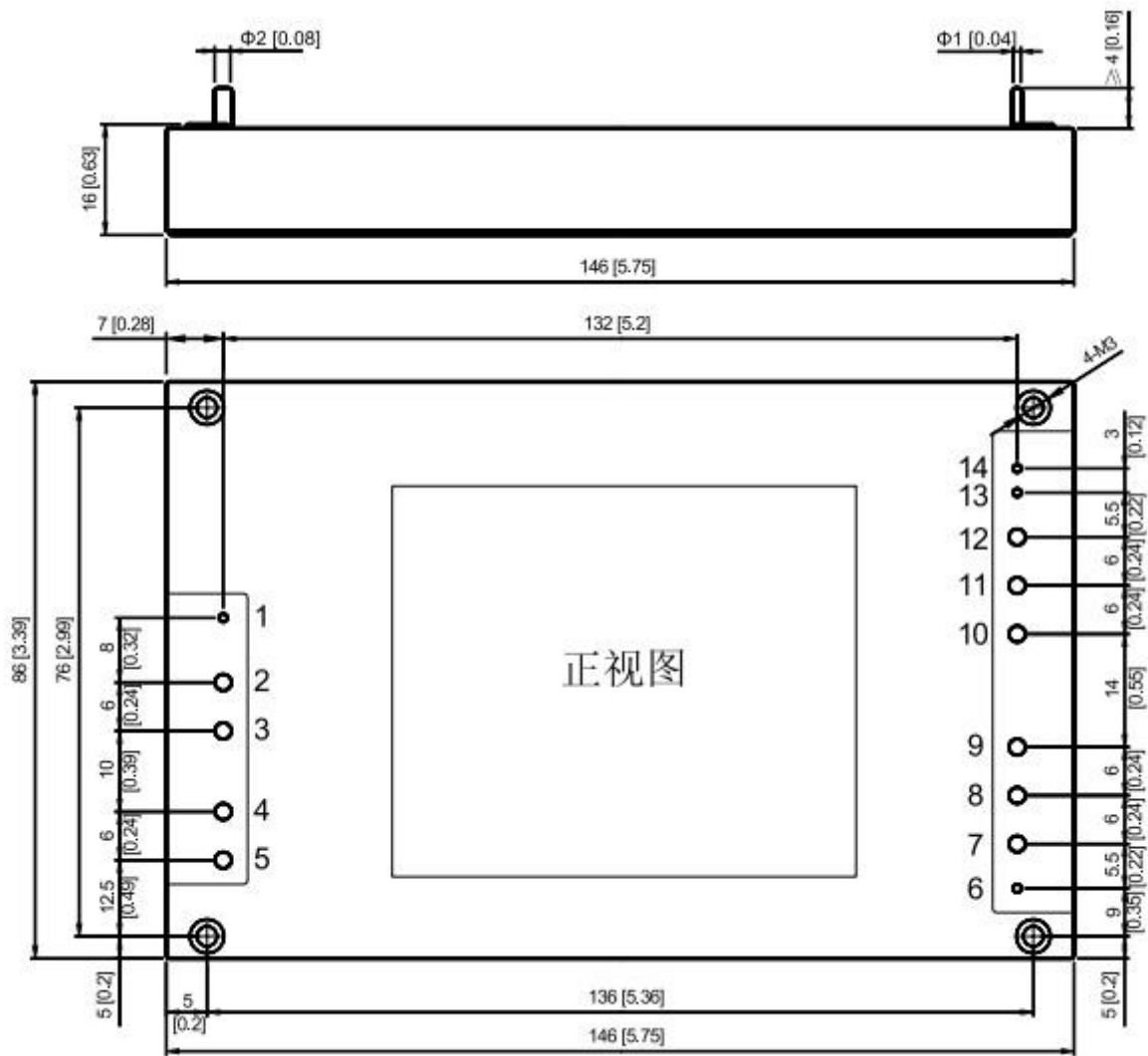
Output Load--Efficiency



Temperature Curve



Mechanical Dimension



BOTTOM VIEW

Unit:mm(inch)

Tolerance:±0.2mm(±0.008inch)

Mechanical Data

WATT	L x W x H	Packing No.
400W	146*86*16mm	

Pin Assignment

Pin	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Single O/P	CTL	-Vin	-Vin	+Vin	+Vin	+S	+Vout	+Vout	+Vout	-Vout	-Vout	-Vout	-S	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.