

Typical Performance

FEATURES

- Wide Input voltage range (2:1、4:1)
- Typical Efficiency:85%
- Switching frequency: 300KHz ± 30 KHz
- Overcurrent/Short circuit protection,Self-furbish
- Input-output isolate 1500VDC
- PCB Board in-line type installs



3-Years Product Warranty

Technology parameter Test condition:General Nominal Line,Tc=25℃, Rated resistant load unless other wisespecified

Input Feature	Min	Nom	Max	Notes
Input voltage(Vdc)	9	12	18	W 2:1
	18	24	36	W 2:1
	36	48	72	W 2:1
	72	110	144	W 2:1
	9	18	36	W 4:1
	18	36	72	W 4:1
Turn on voltage	3.5Vdc		+Vin	Converter guaranteed on when REM pin is left open
Turn off voltage	0		0.3Vdc	

Under voltage protect

Output Feature

Voltage accuracy		Vo1;Vo2,Vo3	±1.0%, ±2.0%
Line regulation		Vo1;Vo2,Vo3	±0.2%, ±1.5%
Load regulation	20% ~ 100%	Vo1;Vo2,Vo3	±0.5%, ±4.0%
Ripple and noise	20MHz BM	Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p;	Other, ≤100mVp-p;
Dynamic response	25%	ΔVo1/Δt	±4.0/500us%
Voltage adjust	Standard output voltage	TRIM	±10%(adjustable)
Start delay time	typical		≤200mS

General Feature

Efficiency	Normal input , full load	Vo≤5.0V,80% typical	Vo>5.0V, 87% typical
Switching frequency		300KHz typical	Max 330KHz
Operating temperature	Free air	Industrial level	-25°C ~ +55°C
Storage temperature			-40°C ~ +105°C
Max case temperature			+95°C
Relative humidity			10%~90%
case material			Metal case
Isolation Voltage	500Vdc ≤0.5mA/1min,500Vdc ≤0.5mA/1min		
MTBF	2X10 ⁵ Hrs		

Product Nomination Method

example	L D 25 - 48 S 05 I ① ② ③ ④ ⑤ ⑥ ⑦						
①	Wide input voltage: 2: 1	⑥	output voltage				
②	Power adaptation mode: D (DC-DC)	⑦	I: Dual Route output Isolate				
③	Output power(W)		W: Super Wide input voltage				
④	Normal input voltage						
⑤	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output						

Product Program

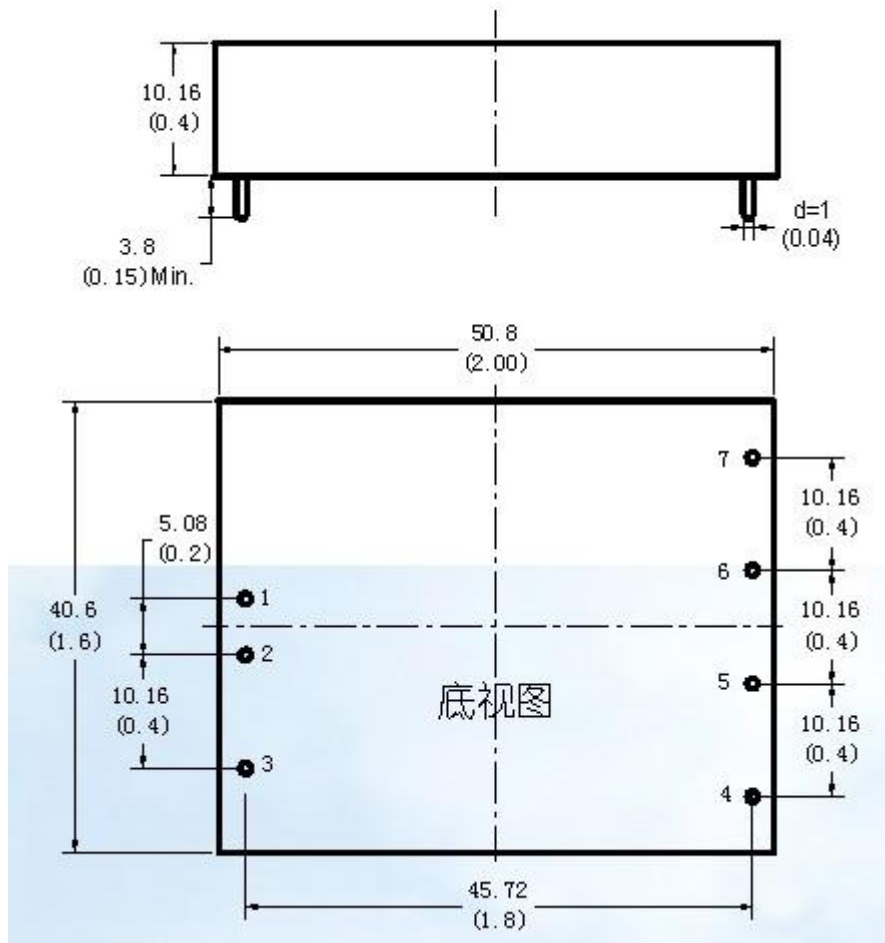
PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
LD15-12S3V3A	12 V (9~18V)	3.3V	3000mA				
LD15-12S05A		5V	3000mA				
LD15-12S09A		9V	1600mA				
LD15-12S12A		12V	1250mA				
LD15-12S15A		15V	1000mA				
LD15-12S18A		18V	833mA				
LD15-12S24A		24V	630mA				
LD15-12S28A		28V	536mA				
LD15-12S48A		48V	313mA				
LD15-12D3V3A		+3.3V	500 mA	-3.3V	500 mA		
LD15-12D05A		+5V	500 mA	-5V	500 mA		

LD15-12D09A		+9V	830 mA	-9V	830 mA			
LD15-12D12A		+12V	625 mA	-12V	625mA			
LD15-12D15A		+15V	500 mA	-15V	500 mA			
LD15-12D24A		+24V	310 mA	-24V	310 mA			
LD15-18S3V3A	18V(9~36V)	3.3V	3000mA					
LD15-18S05A		5V	3000mA					
LD15-18S09A		9V	1600mA					
LD15-18S15A		15V	1000mA					
LD15-18S18A		18V	833mA					
LD15-18S24A		24V	630mA					
LD15-18S28A		28V	536mA					
LD15-18S48A		48V	313mA					
LD15-18D3V3A		+3.3V	500 mA	-3.3V	500 mA			
LD15-18D05A		+5V	500 mA	-5V	500 mA			
LD15-18D09A		+9V	830 mA	-9V	830 mA			
LD15-18D12A		+12V	625 mA	-12V	625mA			
LD15-18D15A		+15V	500 mA	-15V	500 mA			
LD15-18D24A		+24V	310 mA	-24V	310 mA			
LD15-24S3V3A		24V (18~36V)	3.3V	3000mA				
LD15-24S05A			5V	3000mA				
LD15-24S09A	9V		1600mA					
LD15-24S12A	12V		1250mA					
LD15-24S15A	15V		1000mA					
LD15-24S18A	18V		833mA					
LD15-24S24A	24V		630mA					
LD15-24S28A	28V		536mA					
LD15-24S48A	48V		313mA					
LD15-24D3V3A	+3.3V		500 mA	-3.3V	500 mA			
LD15-24D05A	+5V		500 mA	-5V	500 mA			
LD15-24D09A	+9V		830 mA	-9V	830 mA			
LD15-24D12A	+12V		625 mA	-12V	625mA			
LD15-24D15A	+15V		500 mA	-15V	500 mA			

LD15-24D24A		+24V	310 mA	-24V	310 mA			
LD15-36S3V3A	36V(18~72V)	3.3V	3000mA					
LD15-36S05A		5V	3000mA					
LD15-36S09A		9V	1600mA					
LD15-36S12A		12V	1250mA					
LD15-36S15A		15V	1000mA					
LD15-36S18A		18V	833mA					
LD15-36S24A		24V	630mA					
LD15-36S28A		28V	536mA					
LD15-36S48A		48V	313mA					
LD15-36D3V3A		+3.3V	500 mA	-3.3V	500 mA			
LD15-36D05A		+5V	500 mA	-5V	500 mA			
LD15-36D09A		+9V	830 mA	-9V	830 mA			
LD15-36D12A		+12V	625 mA	-12V	625mA			
LD15-36D15A		+15V	500 mA	-15V	500 mA			
LD15-36D24A		+24V	310 mA	-24V	310 mA			
LD15-48S3V3A		48V (36~72V)	3.3V	3000mA				
LD15-48S05A			5V	3000mA				
LD15-48S09A	9V		1600mA					
LD15-48S12A	12V		1250mA					
LD15-48S15A	15V		1000mA					
LD15-48S18A	18V		833mA					
LD15-48S24A	24V		630mA					
LD15-48S28A	28V		536mA					
LD15-48S48A	48V		313mA					
LD15-48D3V3A	+3.3V		500 mA	-3.3V	500 mA			
LD15-48D05A	+5V		500 mA	-5V	500 mA			
LD15-48D09A	+9V		830 mA	-9V	830 mA			
LD15-48D12A	+12V		625 mA	-12V	625mA			
LD15-48D15A	+15V		500 mA	-15V	500 mA			
LD15-48D24A	+24V		310 mA	-24V	310 mA			
LD15-110S3V3A	110V (72~144V)		3.3V	3000mA				

LD15-110S05A		5V	3000mA				
LD15-110S09A		9V	1600mA				
LD15-110S12A		12V	1250mA				
LD15-110S15A		15V	1000mA				
LD15-110S18A		18V	833mA				
LD15-110S24A		24V	630mA				
LD15-110S28A		28V	536mA				
LD15-110S48A		48V	313mA				
LD15-110D3V3A		+3.3V	500 mA	-3.3V	500 mA		
LD15-110D05A		+5V	500 mA	-5V	500 mA		
LD15-110D09A		+9V	830 mA	-9V	830 mA		
LD15-110D12A		+12V	625 mA	-12V	625mA		
LD15-110D15A		+15V	500 mA	-15V	500 mA		
LD15-110D24A		+24V	310 mA	-24V	310 mA		

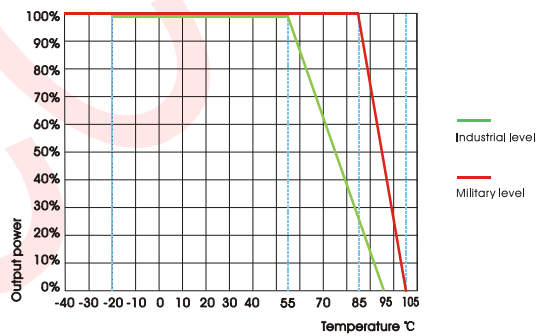
Mechanical Dimension



BOTTOM VIEW

UNIT:mm(inch)

Temperature Curve



Mechanical Data

WATT	L x W x H	Packing No.
15W	50.80 x 40.64 x 10.16mm(2*1.6*0.4inch)	A

Pin Assignment

PIN NO.	1	2	3	4	5	6	7			
Single O/P	+Vin	-Vin	REM	TRIM	GND	Vo1	NP			
Dual O/P	+Vin	-Vin	REM	TRIM	-Vo2	COM	+Vo1			

*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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