SCHMID-M®
DC/DC – Converter

250W DC/DC converter module

Typical Performance

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

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

Input Feature	Min	Nom	Max	Notes
Input voltage(Vdc)	18	24	36	W 2:1
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	±1.0%
Line regulation		Vo1	±0.2%
Load regulation	20% ~ 100%	Vo1	±0.5%
Ripple and noise	20MHz BM Vo≤5.0V, ≤50mVp-p; Vo≥48V, ≤180mVp-p; Other, ≤100mVp-p;		
Dynamic response	25%	△Vo1/△t	±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℃ ~ +55℃
Storage temperature			-40℃ ~ +105℃

Max case temperature			+95℃
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		SL D 25 – 48 S 05 I ① ② ③ ④ ⑤ ⑥ ⑦		
①	L:Wide voltage input：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			

Typical Product Tabulate

PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	A	V	A	V	A
SLD250-24S12	24V(18~36V)	12V	21A				

Mechanical Data
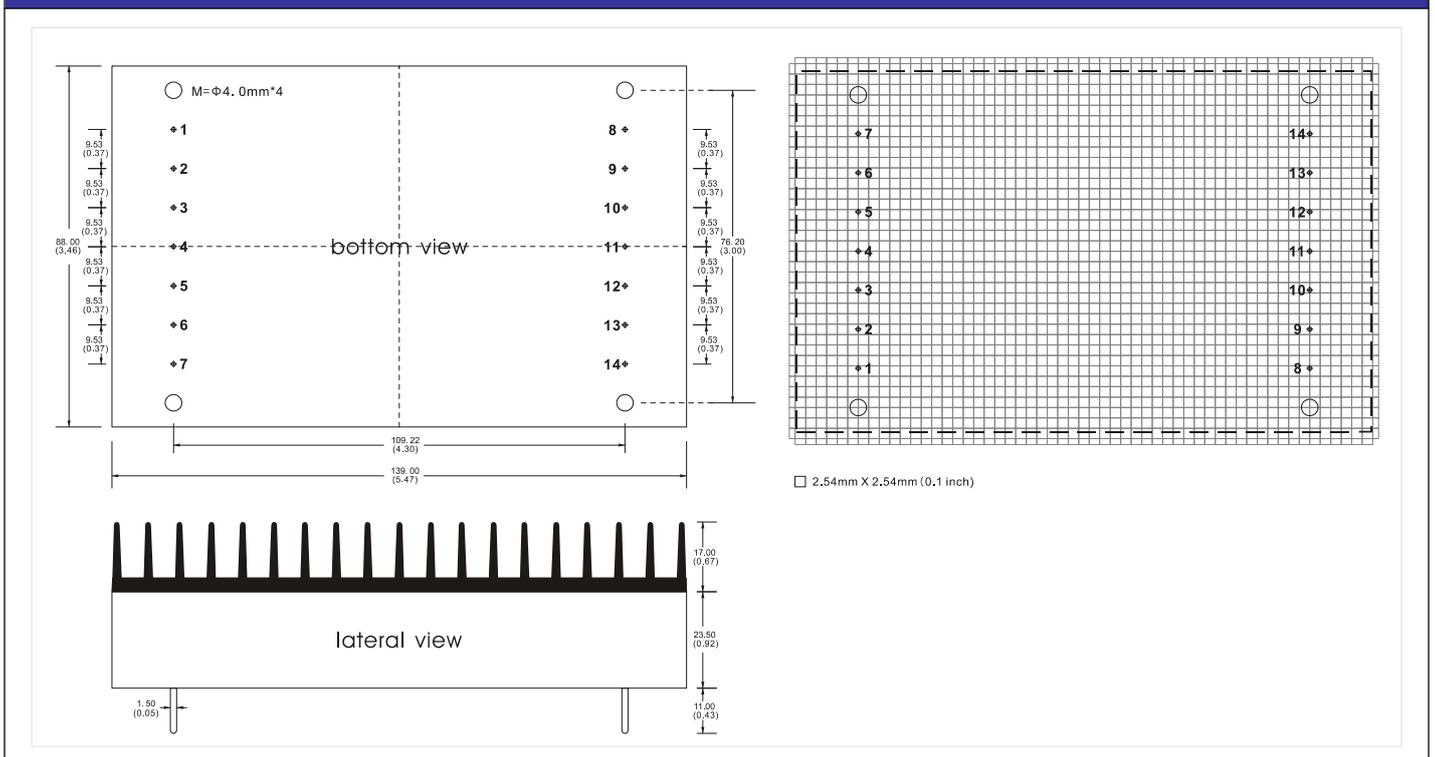
Temperature Graph
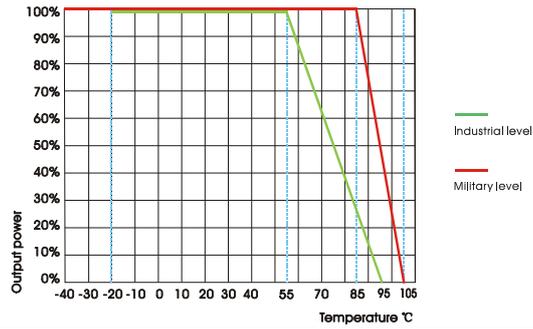
Mechanical Data

Packing	L x W x H	Packing No.
A	139 x 88 x 23.5mm(5.47*3.46*0.93inch)	

Pin Assignment

PIN	1	2	3	4	5	6	7	8	9	10
S	NP	-Vin	-Vin	+Vin	+Vin	REM	CASE	-Vo	-Vo	+Vo
	11	12	13	14						
	+Vo	-SENSE	TRIM	+SENSE						

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