

50W DC/DC converter

Typical Performance

- ⊙ Wide Input voltage range (2:1)
- ⊙ Typical Efficiency:82%
- ⊙ Switching frequency: 200KHz
- ⊙ Short circuit protection,Self-furbish,input over voltage protection
- ⊙ Input-output isolate 500VDC
- ⊙ Metal case, Low Output Ripple
- ⊙ Chassis mount
- ⊙ Silicone filling and sealing, dustproof,moistureproof, high reliability



Technology parameter Test condition:General Nominal Line,Tc=25°C, Rated resistant load unless other wispecified

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

Output Feature

Voltage accuracy				±1.0%
Line regulation				±0.2%
Load regulation				±0.5%
Over current protection			120%~200% ,output will be turn off,self-recover	
Ripple and noise				80mV

General Feature

Efficiency				82% typical
Switching frequency				200KHz typical
Operating temperature	Free air		Industrial level	-25°C ~ +55°C

Storage temperature			-40℃ ~ +125℃
Relative humidity			10%~90%
case material			Metal case
Isolation Voltage	Input-Output		1500VDC
	Input-Case		500VDC
	Output-Case		500VDC
Temperature Coefficient			≤±0.05%/℃
Cooling			Natural Convection,or add heatsink
MTBF	5X10 ⁵ Hrs		

Product Nomination Method

example	SL D 50 E - 48 S 05						
	①	②	③	④	⑤	⑥	⑦
①	Wide input voltage: 2: 1			⑥	S=Single route output, D=Dual route output, T=Triple route output, Q=Quadruple output		
②	Power adaptation mode: D (DC-DC)			⑦			
③	Output power(W)						
④	Vehicle power supply				output voltage		
⑤	Normal input voltage						

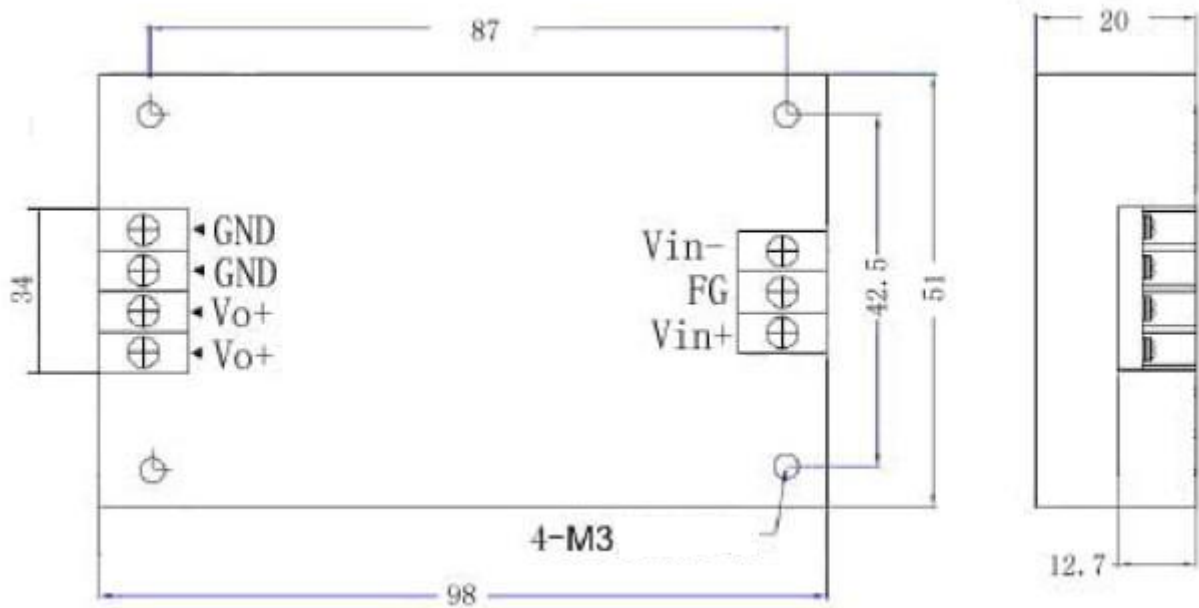
Product Program

PART #	Input voltage range	Output voltage / current					
		VO1		VO2		VO3	
		V	mA	V	mA	V	mA
SLD50E-12S05	12V(9~18V)	5V	1000mA				
SLD50E-12S12		12V	4200mA				
SLD50E-12S15		15V	3300mA				
SLD50E-12S24		24V	2100mA				
SLD50E-12S28		28V	1750mA				
SLD50E-12S48		48V	1000mA				
SLD50E-12D05		+5V	5000mA	-5V	5000mA		
SLD50E-12D12		+12V	2083mA	-12V	2083mA		
SLD50E-12D15		+15V	1667mA	-15V	1667mA		
SLD50E-12D24		+24V	1042mA	-24V	1042mA		
SLD50E-12D28		+28V	893mA	-28V	893mA		

SLD50E-12D48		+48V	521mA	-48V	521mA			
SLD50E-12S05S12		+5V	3000mA	+12V	2917mA			
SLD50E-12S05S24		+5V	3000mA	+24V	1458mA			
SLD50E-24S05	24V(18~36V)	5V	10000mA					
SLD50E-24S12		12V	4200mA					
SLD50E-24S15		15V	3300mA					
SLD50E-24S24		24V	2100mA					
SLD50E-24S28		28V	1750mA					
SLD50E-24S36		36V	1389mA					
SLD50E-24S48		48V	1000mA					
SLD50E-24D05		+5V	5000mA	-5V	5000mA			
SLD50E-24D12		+12V	2083mA	-12V	2083mA			
SLD50E-24D15		+15V	1667mA	-15V	1667mA			
SLD50E-24D24		+24V	1042mA	-24V	1042mA			
SLD50E-24D28		+28V	893mA	-28V	893mA			
SLD50E-24D48		+48V	521mA	-48V	521mA			
SLD50E-24S05S12		+5V	3000mA	+12V	2917mA			
SLD50E-24S05S24		+5V	3000mA	+24V	1458mA			
SLD50E-48S05		48V(36~72)	5V	10000mA				
SLD50E-48S12			12V	4200mA				
SLD50E-48S15			15V	3300mA				
SLD50E-48S24			24V	2100mA				
SLD50E-48S28			28V	1750mA				
SLD50E-48S48	48V		1000mA					
SLD50E-48S60	60V		833mA					
SLD50E-48D05	+5V		5000mA	-5V	5000mA			
SLD50E-48D12	+12V		2083mA	-12V	2083mA			
SLD50E-48D15	+15V		1667mA	-15V	1667mA			
SLD50E-48D24	+24V		1042mA	-24V	1042mA			
SLD50E-48D28	+28V		893mA	-28V	893mA			
SLD50E-48D48	+48V		521mA	-48V	521mA			
SLD50E-48S05S12	+5V		3000mA	+12V	2917mA			
SLD50E-48S05S24	+5V		3000mA	+24V	1458mA			
SLD50E-110S05	110V(72~144V)		5V	10000mA				

SLD50E-110S12		12V	4200mA				
SLD50E-110S15		15V	3300mA				
SLD50E-110S24		24V	2100mA				
SLD50E-110S28		28V	1750mA				
SLD50E-110S48		48V	1000mA				
SLD50E-110D05		+5V	5000mA	-5V	5000mA		
SLD50E-110D12		+12V	2083mA	-12V	2083mA		
SLD50E-110D15		+15V	1667mA	-15V	1667mA		
SLD50E-110D24		+24V	1042mA	-24V	1042mA		
SLD50E-110D28		+28V	893mA	-28V	893mA		
SLD50E-110D48		+48V	521mA	-48V	521mA		
SLD50E-110S05S12		+5V	3000mA	+12V	2917mA		
SLD50E-110S05S24		+5V	3000mA	+24V	1458mA		

Mechanical Dimension



BOTTOM VIEW

Mechanical Data

WATT	L x W x H	Packing No.
50W	98*51*20mm	

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