



SLD50Q-350W DC-DC converter (1/2 brick)



Typical Performance

- ⊙ Wide Input voltage range (2:1/4:1)
- ⊙ Typical Efficiency: 85%
- ⊙ Input under voltage, over voltage protection
- ⊙ Short circuit protection, auto recovery
- ⊙ Input-output isolated
- ⊙ PCB Board in-line type installs
- ⊙ High power density
- ⊙ Optional heat sink



Technology parameter Test condition: General Nominal Line, $T_c = 25^\circ\text{C}$, Rated resistant load unless otherwise specified

Input Features	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
	70	110	185	W 2:1
	200	300	400	W 2:1
	9	18	36	W 4:1
	18	36	72	W 4:1

Remote On/Off Function

Control (Positive Logic)		On		CNT Pin left open or connect to +Vin
		Off		CNT Pin connect -Vin
Control (Negative Logic, Tip/P)		On		CNT Pin connect -Vin
		Off		CNT Pin left open or connect to +Vin

Output Feature

Voltage accuracy				$\pm 1.0\%$ (V_{inom} and I_{onom})
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Line regulation			±0.2%
Load regulation			±0.5%(V _{min} ~V _{max} ,I _{on} om)
Ripple and noise			≤1%V _o ;
Dynamic response			200us
Voltage adjust			±10% (adjustable)
Start delay time			≤200mS

General Feature

Temperature Coefficient			±0.02%/°C
Isolation Voltage			
Input-output			1500VDC
V _{in} -FG			1050VDC
V _o -FG			500VDC
Isolation Resistance			≥500MΩ
Board temperature			-25°C ~ +90°C
Storage temperature			-40°C ~ +105°C
work humidity			5%~85%RH
Storage humidity			5%~95%RH
case material			aluminium baseplate
Earthquake Resistance			10-55Hz 5g
Attack(half sin wave)			Acceleration:a=50g±5g, Attack time:8-12ms,6 times each for X,Y,Z
Cooling			Conduct cooling
MTBF	3000000Hrs		

Product Nomination Method

example	SL D 100 - Q 48 S 12 ① ② ③ ④ ⑤ ⑥ ⑦		
①	Wide input voltage: 2:1/4:1	④	Q: 1/2 brick package
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
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		VO1		VO2		VO3		
		V	A	V	A	V	A	
SLD50Q-S2V5		2.5V	10A					
SLD50Q-S3V3		3.3V	10A					
SLD50Q-S05		5V	10A					
SLD50Q-S12		12V	4.2A					
SLD50Q-S15		15V	3.3A					
SLD50Q-S24		24V	2.1A					
SLD50Q-S28		28V	1.8A					
SLD50Q-S48		48V	1.1A					
SLD100Q-S2V5		12V(9~18V)	2.5V	20A				
SLD100Q-S3V3		18V(9~36V)	3.3V	20A				
SLD100Q-S05		24V(18~36V)	5V	20A				
SLD100Q-S12		36V(18~72V)	12V	8.3A				
SLD100Q-S15		48V(36~72V)	15V	6.7A				
SLD100Q-S24		110V(70~185V)	24V	4.2A				
SLD100Q-S28		300V(200~400V)	28V	3.6A				
SLD100Q-S48			48V	2.1A				
SLD150Q-S2V5			2.5V	30A				
SLD150Q-S3V3			3.3V	30A				
SLD150Q-S05			5V	30A				
SLD150Q-S12			12V	12.5A				
SLD150Q-S15			15V	10A				
SLD150Q-S24			24V	6.25A				
SLD150Q-S28			28V	5.4A				
SLD150Q-S48			48V	3.1A				
SLD200Q-S2V5		2.5V	40A					
SLD200Q-S3V3		18V(9~36V)	3.3V	40A				
SLD200Q-S05		24V(18~36V)	5V	40A				
SLD200Q-S12		36V(18~72V)	12V	16.7A				
SLD200Q-S15		48V(36~72V)	15V	13.3A				
SLD200Q-S24		110V(66~160V)	24V	8.3A				
SLD200Q-S28			28V	7.1A				
SLD200Q-S48			48V	4.2A				
SLD350Q-S12	24V(18~36V)	12V	29.2A					
SLD350Q-S15	48V(36~72V)	15V	23.3					
SLD350Q-S24		24V	14.6A					

