







Features

- DIP 1"x1" package with industry standard pinout
- 8:1 ultrawide input range
- Operating temperature range -40 ~ +90°C
- · No minimum load required
- Comply to BS EN/EN55032 radiated Class A without additional components
- High efficiency up to 86%
- Protections: Short circuit (Continuous) / Overload / Over voltage / Input under voltage
- · 3KVDC I/O isolation
- Remote ON/OFF control (optional)
- 3 years warranty











Applications

- Telecom/datacom system
- Wireless network
- · Industrial control facility
- Instrument
- Analyzer
- Detector
- · Data switch

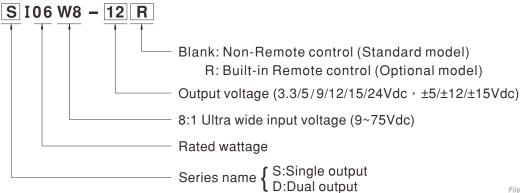
GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

SI06W8 and DI06W8 series are 6W isolated and regulated module type DC-DC converter with DIP 1"x1" package. It features international standard pins, a high efficiency up to 86%, wide working temperature range -40~+90°C, 3KVDC I/P-O/P isolation voltage, compliance to BS EN/EN55032 radiated Class A without additional components, continuous-mode short circuit, overload, Input under voltage protection etc. The models account input voltage 9~75V 8:1 ultrawide input range, and various output voltage, 3.3V/5V/9V/12V/15V/24V for single output and ±5V/±12V/±15V for dual outputs, which are suitable for all kinds of systems, Such as industrial control, telecommunication field, distributed power architecture, and so on.

Model Encoding



6W 1"x1" Package 8:1 Ultra-Wide Input DC-DC Regulated Converter SI06W8 & DI06W8 series

MODEL SELECTION TABLE							
ORDER NO.	INPUT			OUT	ГРИТ		
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	, ,	,
SI06W8-03		5mA	268mA	3.3V	0~1500mA	80%	1800µF
SI06W8-05		5mA	309mA	5V	0~1200mA	83%	1000μF
SI06W8-09	Normal 12V,24V,36V,48V,72V (9 ~ 75V)	7mA	301mA	9V	0~667mA	82.5%	680µF
SI06W8-12		7mA	300mA	12V	0~500mA	85%	470μF
SI06W8-15		8mA	294mA	15V	0~400mA	86%	220µF
SI06W8-24		8mA	294mA	24V	0~250mA	85%	220µF
DI06W8-05		7mA	309mA	±5V	±0~600mA	81%	*470µF
DI06W8-12		9mA	295mA	±12V	±0~250mA	85%	*100µF
DI06W8-15		11mA	300mA	±15V	±0~200mA	84.5%	*100µF

^{*} For each output

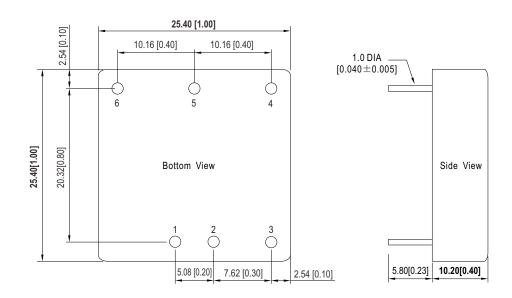


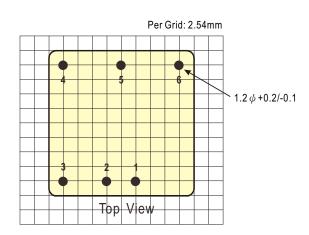
SPECIFICAT	TION							
	VOLTAGE RANGE 9 ~ 75Vdc							
INPUT	SURGE VOLTAGE (100ms max.)	100Vdc						
	FILTER	Capacitor network						
	PROTECTION	Fuse recommended. 2A Slow-Blow Type						
	VOLTAGE ACCURACY	±2%						
ОИТРИТ	RATED POWER	6W						
	RIPPLE & NOISE Note.2	100mVp-p						
	LINE REGULATION Note.3							
	LOAD REGULATION Note.4							
	SWITCHING FREQUENCY (Typ.)							
	SHORT CIRCUIT	Protection type : Continuous, automatic recovery						
		110 ~ 230% rated output power						
	OVERLOAD	Protection type : Recovers automatically after fault condition is removed						
PROTECTION	OVER VOLTAGE	Protection type: Clamp by TVS diode						
		Start-up voltage	8.8V					
	UNDER VOLTAGE LOCKOUT	Shutdown voltage	8.5V					
FUNCTION	REMOTE CONTROL	Power ON: RC ~ -Vin > 2.	.5Vdc ~ 6Vdc	or open circuit				
	(OPTIONAL)	Power OFF: RC ~ -Vin <1Vdc or short						
	COOLING	Free-air convection						
	WORKING TEMP.	-40 ~ +90°C (Refer to "Derating Curve")						
	CASE TEMPERATURE	+105°C max.						
	WORKING HUMIDITY	5% ~ 95% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY							
	TEMP. COEFFICIENT	±0.05% / °C (0 ~ 71°C)						
	SOLDERING TEMPERATURE	1.5mm from case of 1 ~ 3sec./260 $^{\circ}$ C max.						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	EAC TP TC 004 approved						
	WITHSTAND VOLTAGE	I/P-O/P:3KVDC						
	ISOLATION RESISTANCE	I/P-O/P:1000M Ohms / 500VDC / 25°C / 70% RH						
	ISOLATION CAPACITANCE (Typ.)							
	EMC EMISSION	Parameter		Standard	Test Level / Note			
		Conducted		BS EN/EN55032(CISPR32)	N/A			
SAFETY & EMC		Radiated		BS EN/EN55032(CISPR32)	Class A without external components Class B with external components			
(Note.5)	EMC IMMUNITY	Parameter		Standard	Test Level / Note			
		ESD		BS EN/EN61000-4-2	contact ±4KV			
		Radiated Susceptibility		BS EN/EN61000-4-3	3V/m			
		EFT/Burest		BS EN/EN61000-4-4	±0.5KV			
		Surge		BS EN/EN61000-4-5	Line-Line ± 0.5KV			
		Conducted		BS EN/EN61000-4-6	3Vrms			
		Magnetic field immunity		BS EN/EN61000-4-8	1A/m			
	MTBF	>400Khrs MIL-HDBK-217F(25°C)						
	DIMENSION (L*W*H)	25.4*25.4*10.2mm (1*1*0.401 inch)						
OTHERS	CASE MATERIAL	Black coated copper with non-conductive base						
	PACKING	20g; 10pcs/per tube, 600pcs/60 tube/per carton						
NOTE	2.Ripple & noise are mea 3.Line regulation is measu 4.Load regulation is measu 5.The final equipment mu refer to "EMI testing of o	cified at normal input(24Vdc), rated load, 25°C 70% RH ambient. asured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. ured from low line to high line at rated load. sured from 0% to 100% rated load. ust be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please component power supplies."(as available on http://www.meanwell.com) imer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						
					File Name:SI06W8,DI06W8-SPEC 2023-09-1			



■ Mechanical Specification

- All dimensions in mm(inch) Tolerance:x.x or x.xx ± 0.5 mm(0.019 inch) Pin size is 1 ± 0.1 mm (0.04" ± 0.004 ")

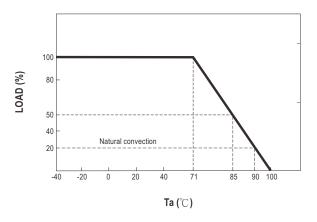




■ Plug Assignment

Pin-Out					
Pin No.	SI06W8 (Single output)	DI06W8 (Dual output)			
1	+Vin	+Vin			
2	-Vin	-Vin			
3	N.P(Standard) ; R.C (Optional)				
4	-Vout	-Vout			
5	N.P	Common			
6	+Vout	+Vout			

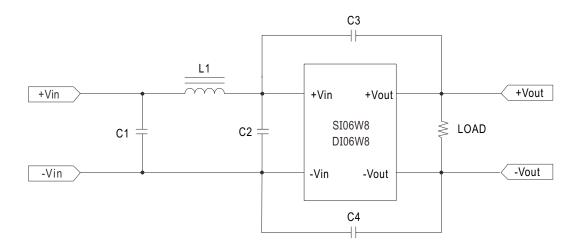
■ Derating Curve





■ EMC Suggest Ciruit

* Required external componets to meet BS EN/EN55032 radiated Class B emission as below:



Model No.	C1	C2	C3	C4	L1
SI06W8 DI06W8	2.2µF/100V	2.2µF/100V	152pF/5KV	152pF/5KV	10µH Common Choke



■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm Product 290 21 137.75 Tube Plugs Tube pattern CARTON L600 x W230 x H220	10	243g	600	15.4Kg

■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html