









Features

- DIP 1"x1" package with industry standard pinout
- 4:1 ultrawide input range
- Operating temperature range -40 ~ +85°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
- 1.5KVDC I/O isolation
- · 3 years warranty











Applications

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

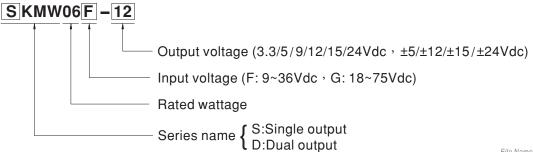
■ GTIN CODE

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

Description

SKMW06 and DKMW06 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~+85°C, 1.5KVDC I/P-O/P isolation voltage, compliance to BS EN/EN55032 radiated Class A without additional components, continuous-mode short circuit, overload, over temperature, input under voltage protection etc. The models account for different input voltage 9~36V and 18~75V 4:1 ultrawide input range, and various output voltage, 3.3V/5V/9V/12V/15V/24V for single output and ±5V/±12V/ ±15V/±24V 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 DC-DC Regulated Converter **SKMW06 & DKMW06** series

MODEL SELECTION TABLE								
ORDER NO.	INPUT			OUTPUT				
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)	
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT		(
SKMW06F-03		5mA	268mA	3.3V	0~1500mA	77%	1800µF	
SKMW06F-05		5mA	309mA	5V	0~1200mA	81%	1000μF	
SKMW06F-09		7mA	309mA	9V	0~667mA	83%	680µF	
SKMW06F-12	Normal 24V (9 ~ 36V)	7mA	309mA	12V	0~500mA	85%	470µF	
SKMW06F-15		8mA	309mA	15V	0~400mA	85%	220µF	
SKMW06F-24		13mA	309mA	24V	0~250mA	86%	100µF	
DKMW06F-05		7mA	309mA	±5V	±0~600mA	81%	*470µF	
DKMW06F-12		9mA	309mA	±12V	±0~250mA	85%	*100µF	
DKMW06F-15		11mA	309mA	±15V	±0~200mA	85%	*100µF	
DKMW06F-24		17mA	309mA	±24V	±0~125mA	85%	*100µF	
SKMW06G-03		13mA	134mA	3.3V	0~1500mA	77%	1800µF	
SKMW06G-05		2mA	155mA	5V	0~1200mA	81%	1000μF	
SKMW06G-12		3mA	155mA	12V	0~500mA	85%	470μF	
SKMW06G-15	Normal 48V (18 ~ 75V)	3mA	155mA	15V	0~400mA	86%	220µF	
SKMW06G-24		5mA	155mA	24V	0~250mA	86%	100µF	
DKMW06G-05		3mA	155mA	±5V	±0~600mA	81%	*470µF	
DKMW06G-12		4mA	155mA	±12V	±0~250mA	85%	*100µF	
DKMW06G-15		5mA	155mA	±15V	±0~200mA	86%	*100µF	



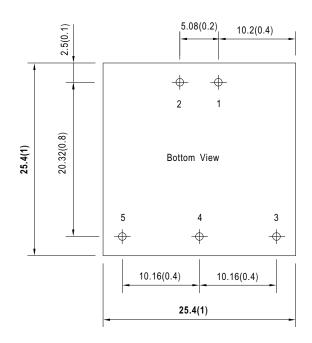
6W 1"x1" Package DC-DC Regulated Converter **SKMW06 & DKMW06** series

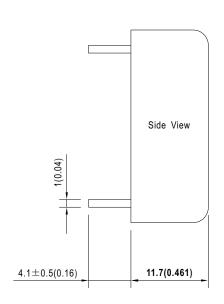
SPECIFICA	ΓΙΟΝ						
	VOLTAGE RANGE	F: 9~36Vdc , G: 18~75Vdc					
INPUT	SURGE VOLTAGE (100ms max.)						
	FILTER	Pi type					
	PROTECTION	Fuse recommended. 24Vin models: 1.5A delay time Type, 48Vin models: 0.8A delay time Type					
	INTERNAL POWER DISSIPATION						
	VOLTAGE ACCURACY	±1%					
ОИТРИТ	RATED POWER	6W					
	RIPPLE & NOISE Note.2	60mVp-p(typ.), 85mVp-p(max.)					
	LINE REGULATION Note.3						
	LOAD REGULATION Note.4	Single output models: \pm 1%, Dual output models: Main road \pm 1%, Side road \pm 1.5%					
	SWITCHING FREQUENCY (Typ.)						
	SHORT CIRCUIT	Protection type : Continuous, automatic recovery					
		110 ~ 190% rated output					
	OVERLOAD	Protection type : Recovers automatically after fault condition is removed					
PROTECTION	OVER VOLTAGE	Protection type: Recovers automatically after fault condition is removed Protection type: Clamp by diode					
	- In Tolinol	Start-up voltage 24Vin (F-type): 6.5Vdc, 48Vin (G-type): 15.5Vdc					
	UNDER VOLTAGE LOCKOUT	Shutdown voltage 24Vin (F-type): 5.5Vdc, 48Vin (G-type): 15.5Vdc Shutdown voltage 24Vin (F-type): 5.5Vdc, 48Vin (G-type): 12Vdc					
	COOLING	Free-air convection					
	WORKING TEMP.	-40 ~ +85°C (Refer to "De	erating Curv	e")			
	CASE TEMPERATURE	+105°C max.	rating our v	- 			
	WORKING HUMIDITY	1100					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	5% ~ 95% RH non-condensing -55 ~ +125°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	-55~+125 €, 10~95% KH HOH-condensing 0.03% / °€ (0~71°€)					
	SOLDERING TEMPERATURE	1.5mm from case of 1 ~ 3sec./260°C max.					
	VIBRATION	1.5mm rom case of 1 ~ 5sec./200 C max. 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
	SAFETY STANDARDS	UL60950-1, EAC TP TC 004 approved					
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC					
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH					
	ISOLATION CAPACITANCE (Typ.)						
	IOOEATION OAI AOTIANOE (199.)	Parameter		Standard	Test Level / Note		
	EMC EMISSION	Conducted		BS EN/EN55032(CISPR32)	N/A		
SAFETY &	EMIC EMISSION			• • • • • • • • • • • • • • • • • • • •	Class A without external components		
EMC (Note.5)				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	10V/m		
		EFT/Burest		BS EN/EN61000-4-4	± 2 KV(see page 4)		
		Surge		BS EN/EN61000-4-5	Line-Line ±2KV		
		Conducted		BS EN/EN61000-4-6	3Vrms		
	MTBF	1000Khrs MIL-HDBK-217F(25°C)					
	DIMENSION (L*W*H)	25.4*25.4*11.7mm (1*1*0.461 inch)					
OTHERS	CASE MATERIAL	Black coated copper with non-conductive base					
	PACKING	12.5g; 19pcs/per tube, 912pcs/48 tube/per carton					
NOTE	Ripple & noise are mea Line regulation is meas Load regulation is meas The final equipment murefer to "EMI testing of a second control of the second control of	are specified at normal input(F:24Vdc, G:48Vdc), rated load, 25°C 70% RH ambient. are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. is measured from low line to high line at rated load. is measured from 5% to 100% rated load. ment must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please sting of component power supplies."(as available on http://www.meanwell.com) y Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					
					File Name:SKMW06,DKMW06-SPEC 2022-05-2		

6W 1"x1" Package DC-DC Regulated Converter SKMW06 & DKMW06 series

■ Mechanical Specification

- All dimensions in mm(inch)
- Tolerance:x.x±1mm(x.xx±0.25")
- Pin size is 1 ± 0.1 mm $(0.04"\pm0.004")$

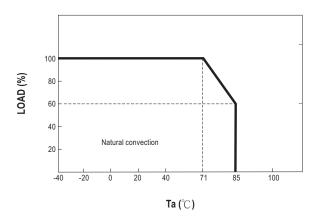




■ Plug Assignment

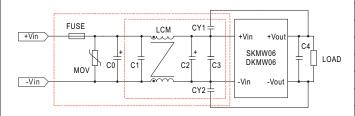
Pin-Out						
Pin No.	SKMW06 (Single output)	DKMW06 (Dual output)				
1	+Vin	+Vin				
2	-Vin	-Vin				
3	+Vout	+Vout				
4	N.P	Common				
5	-Vout	-Vout				

■ Derating Curve



■ EMC Suggest Ciruit

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



Model	BS EN/EN55032 Class B			
Model	Vin:24V	Vin:48V		
FUSE	Choose according to	Choose according to actual input current		
MOV	S20K30	S14K60		
C0	680µf / 50V	680µf / 100V		
C1	1µf / 50V	1µf / 100V		
C2	330µf / 50V	330µf / 100V		
C3	4.70µf/50V	4.70µf / 100V		
C4	10µf / 50V			
LCM	4.7mH			
CY1 · CY2	1nF/2KV			

■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm Product Tube Plugs Tube pattern CARTON L600 x W285 x H225	19 H	300g	912	15.8Kg

■ Installation Manual

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