









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

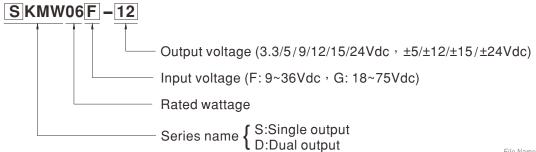
■ GTIN CODE

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



MODEL SELE	ECTION TABLE						
ORDER NO.	INPUT			ОИТРИТ			
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	(****)	()
SKMW06F-03	Normal 24V (9 ~ 36V)	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		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



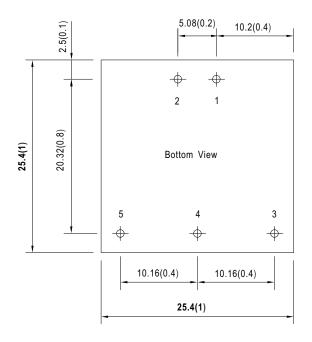
6W 1"x1" Package DC-DC Regulated Converter SKMW06 & DKMW06 series

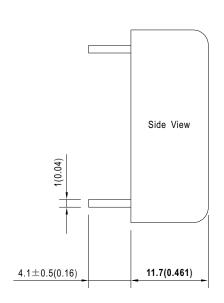
SPECIFICAT	ΓΙΟΝ						
	VOLTAGE RANGE	F: 9~36Vdc , G: 18~75Vdc	C				
INPUT	SURGE VOLTAGE (100ms max.)						
	FILTER	Pi type					
	PROTECTION	Fuse recommended. 24Vin models: 1.5A delay time Type, 48Vin models: 0.8A delay time Type					
	INTERNAL POWER DISSIPATION						
	VOLTAGE ACCURACY	±1%					
ОИТРИТ		±1% 6W					
	RATED POWER						
		60mVp-p(typ.), 85mVp-p(max.)					
	LINE REGULATION Note.3						
		Single output models: ±1%, Dual output models: Main road±1%, Side road±1.5%					
	SWITCHING FREQUENCY (Typ.)						
	SHORT CIRCUIT	Protection type: Continuous, automatic recovery					
	OVERLOAD	110 ~ 190% rated output	power				
PROTECTION	OVEREDAD	Protection type : Recovers automatically after fault condition is removed					
PROTECTION	OVER VOLTAGE	Protection type : Clamp by diode					
	UNDER VOLTAGE LOCKOUT	Start-up voltage 24Vin (F-type): 6.5Vdc, 48Vin (G-type): 15.5Vdc					
	ONDER VOLINGE LOCKOUT	Shutdown voltage	Shutdown voltage 24Vin (F-type): 5.5Vdc, 48Vin (G-type): 12Vdc				
	COOLING	Free-air convection					
	WORKING TEMP.	-40 ~ +85°C (Refer to "De	erating Curve")		<u> </u>		
	CASE TEMPERATURE	+105°C max.					
	WORKING HUMIDITY	5% ~ 95% RH non-condensing					
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH non-condensing					
	TEMP. COEFFICIENT	0.03% / °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	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.)						
	, , , ,	Parameter	St	andard	Test Level / Note		
	EMC EMISSION	Conducted	BS	S EN/EN55032(CISPR32)	N/A		
SAFETY & EMC		Radiated		S EN/EN55032(CISPR32)	Class A without external components		
(Note.5)		Naulateu	D.	5 LIV/LIV55052(GISFINS2)	Class B with external components		
•		Parameter		andard	Test Level / Note		
	EMC IMMUNITY	ESD	BS	S EN/EN61000-4-2	contact ±4KV		
		Radiated Susceptibility	BS	S EN/EN61000-4-3	10V/m		
		EFT/Burest	BS	S EN/EN61000-4-4	± 2 KV(see page 4)		
		Surge	BS	S EN/EN61000-4-5	Line-Line ± 2KV		
		Conducted	BS	S EN/EN61000-4-6	3Vrms		
	MTBF	1000Khrs MIL-HDBK-217F(25°C)					
OTHERS	DIMENSION (L*W*H)	25.4*25.4*11.7mm (1*1*0.461 inch)					
	CASE MATERIAL	Black coated copper with non-conductive base					
	PACKING	12.5g; 19pcs/per tube, 912pcs/48 tube/per carton					
NOTE	Ripple & noise are mease in the regulation is meased. Load regulation is meased. The final equipment murefer to "EMI testing of the regulation in the refer to "EMI testing of the regulation in the refer to "EMI testing of the refer to "EMI tes	eters are specified at normal input(F:24Vdc, G:48Vdc), rated load, 25°C 70% RH ambient. noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. ation is measured from low line to high line at rated load. lation is measured from 5% to 100% rated load. equipment must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please MI testing of component power supplies."(as available on http://www.meanwell.com) iability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx					
					File Name:SKMW06,DKMW06-SPEC 2022-05-2		



■ Mechanical Specification

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

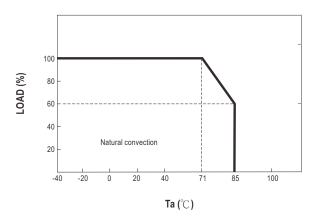




■ Plug Assignment

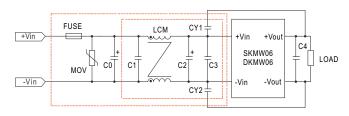
Pin-Out						
Pin No.	SKMW06 (Single output)	DKMW06 (Dual output)				
1	+Vin	+Vin				
2	-Vin	-Vin				
3	+Vout	+Vout				
4	N.P	Common				
5	-Vout	-Vout				

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

■ Installation Manual

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