







#### 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 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











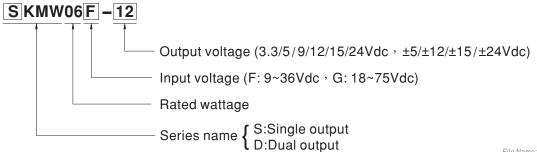
### Applications

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

## 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 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		(, a.u,
SKMW06F-03		5mA	268mA	3.3V	0~1500mA	77%	1800µF
SKMW06F-05		5mA	309mA	5V	0~1200mA	81%	1000μF
SKMW06F-09	Normal 24V (9 ~ 36V)	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

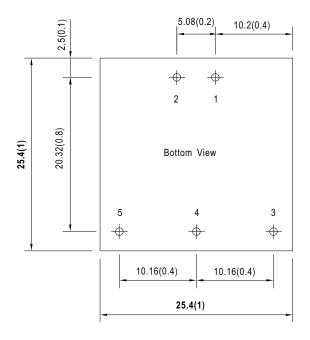


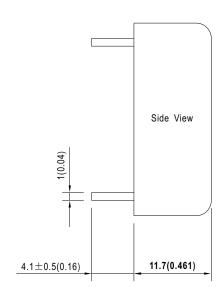
# 6W 1"x1" Package DC-DC Regulated Converter SKMW06 & DKMW06 series

SPECIFICAT	TION							
	VOLTAGE RANGE	F: 9~36Vdc , G: 18~75Vdd						
INPUT	SURGE VOLTAGE (100ms max.)	24Vin models : 50Vdc, 48Vin models : 100Vdc						
	FILTER	Pi type						
	PROTECTION	Fuse recommended. 24Vin models: 1.5A delay time Type, 48Vin models: 0.8A delay time Type						
	INTERNAL POWER DISSIPATION	0.12W						
	VOLTAGE ACCURACY	±1%						
ОИТРИТ	RATED POWER	6W						
	RIPPLE & NOISE Note.2	60mVp-p(typ.), 85mVp-p(max.)						
	LINE REGULATION Note.3	±0.2%						
	LOAD REGULATION Note.4	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						
PROTECTION	OVERLOAD	110 ~ 190% rated output	power	•				
		Protection type: Recovers automatically after fault condition is removed						
	OVER VOLTAGE	Protection type : Clamp by diode						
		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): 12Vdc						
	COOLING	Free-air convection						
	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")						
	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°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.)	1000pF						
	EMC EMISSION	Parameter		Standard	Test Level / N	lote		
SAFETY &		Conducted		EN55032(CISPR32)	N/A			
EMC (Note.5)		Radiated		EN55032(CISPR32)		ut external components external components		
		Parameter		Standard	Test Level / N			
	EMC IMMUNITY	ESD		EN61000-4-2	contact ±4K	V		
		Radiated Susceptibility		EN61000-4-3	10V/m			
		EFT/Burest		EN61000-4-4	±2KV(see pa	age 4)		
		Surge		EN61000-4-5	Line-Line ±2	KV		
		- J		EN61000-4-6	3Vrms			
OTHERS	MTBF	1000Khrs MIL-HDBK-217F(25°C)						
	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	2.Ripple & noise are mea 3.Line regulation is meas 4.Load regulation is meas 5.The final equipment mu	ecified at normal input(F:24Vdc, G:48Vdc), rated load, 25°C 70% RH ambient. easured at 20MHz by using a 12" twisted pair terminated with a 0.1 µf & 47 µf capacitor. asured from low line to high line at rated load. easured from 5% to 100% rated load. easured from 5% to 100% rated load. enust be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please of component power supplies."(as available on http://www.meanwell.com)						
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#### ■ Mechanical Specification

- All dimensions in mm(inch)
- Tolerance:x.x±1mm(x.xx±0.25")
  Pin size is 1±0.1mm (0.04" ±0.004")

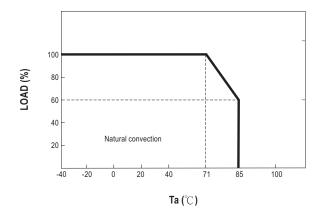




#### ■ Plug Assignment

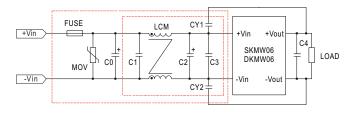
Pin-Out					
Pin No.	SKMW06 (Single output)	DKMW06 (Dual output)			
1	+Vin	+Vin			
2	-Vin	-Vin			
3	+Vout	+Vout			
4	N.P	Common			
5	-Vout	-Vout			

#### ■ Derating Curve



#### **■** EMC Suggest Ciruit

\* Required external componets to meet EN55032 radiated Class B emission as below:



Model	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				

#### ■ Installation Manual

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

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