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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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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 90%
- Protections: Short circuit (Continuous) / Overload /
 Over voltage / Over temperature / Input under voltage
- 1.5KVDC I/O isolation
- · Remote ON/OFF control and Triming output (±10%)
- · 3 years warranty

Automate









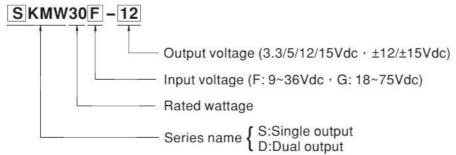
Applications

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

■ Description

SKMW30 and DKMW30 series are 30W isolated and regulated module type DC-DC converter with DIP 1"x1" package. It features international standard pins, a high efficiency up to 90%, wide working temperature range -40~ \pm 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, remote ON/OFF and trimmable output voltage 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/12V/15V for single output and \pm 12V/ \pm 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



30W 1"x1" Package DC-DC Regulated Converter SKMW30 & DKMW30 series

ORDER NO.	INPUT			OUTPUT			
	INPUT VOLTAGE	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD
	(RANGE)	NO LOAD	FULL LOAD	VOLTAGE	CURRENT	(1111.)	(MAX.)
SKMW30F-03		10mA	1172mA	3.3V	0~7500mA	88%	7500µF
SKMW30F-05	24V (9 ~ 36V)	10mA	1400mA	5V	0~6000mA	90%	6000µF
SKMW30F-12		10mA	1404mA	12V	0~2500mA	89%	2500µF
SKMW30F-15		10mA	1404mA	15V	0~2000mA	89%	2000µF
DKMW30F-12		10mA	1425mA	±12V	±0~1250mA	87%	*1250µF
DKMW30F-15		10mA	1425mA	±15V	±0~1000mA	88%	*1000µF
SKMW30G-03		8mA	590mA	3.3V	0~7500mA	88%	7500µF
SKMW30G-05		8mA	700mA	5V	0~6000mA	90%	6000µF
SKMW30G-12	48V (18 ~ 75V)	8mA	700mA	12V	0~2500mA	89%	2500µF
SKMW30G-15		8mA	702mA	15V	0~2000mA	89%	2000µF
DKMW30G-12		8mA	710mA	±12V	±0 ~ 1250mA	88%	*1250µF
DKMW30G-15		8mA	702mA	±15V	±0~1000mA	89%	*1000µF

^{*} For each output



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SPECIFICAT	TION							
	VOLTAGE RANGE	F: 9~36Vdc , G: 18~75Vdc						
INPUT	SURGE VOLTAGE (100ms max.)	24Vin models : 50Vdc, 48Vin models : 100Vdc						
	FILTER	Pitype						
	PROTECTION	Fuse recommended, 24Vin models: 6A delay time Type, 48Vin models: 3A delay time Type						
	INTERNAL POWER DISSIPATION							
	VOLTAGE ACCURACY	±1.5%						
ОИТРИТ	RATED POWER	30W						
	RIPPLE & NOISE Note.2	3.3/5Vout models: 75mVp-p, other models:100mVp-p						
	LINE REGULATION Note.3							
		Single output models: ±0.2%, Dual output models: ±1%						
	SWITCHING FREQUENCY (Typ.)			and the second s				
		±10% (Single output model only)						
	SHORT CIRCUIT							
	SHOKT CIRCUIT	Protection type: Continuous, automatic recovery						
	OVERLOAD	110 ~ 170% rated output power						
PROTECTION	OVER VOLTAGE	Protection type: Recovers automatically after fault condition is removed						
		Protection type : Clamp to	27/	automatically offer temporature asses days				
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down						
P. S. L. C. V. S. L. S. V. S.	UNDER VOLTAGE LOCKOUT	Start-up voltage	24Vin (F-type): 8.8Vdc, 48Vin (G-type): 17Vdc					
		Shutdown voltage 24Vin (F-type): 8Vdc, 48Vin (G-type): 16Vdc						
FUNCTION	REMOTE CONTROL	Power ON: R.C. ~ -Vin >3.5~75Vdc or open circuit; Power OFF: R.C. ~ -Vin <1.2Vdc or short						
	COOLING	Free-air convection						
	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")						
	CASE TEMPERATURE	+105°C max.						
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
	STORAGE TEMP., HUMIDITY	-55~+125°C, 10~95% RH non-condensing						
	TEMP. COEFFICIENT	0.03% /°C (0~60°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						
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
	ISOLATION CAPACITANCE (Typ.)	1500pF						
	EMC EMISSION	Parameter		Standard	Test Level / Note			
		Conducted		EN55032(CISPR32)	N/A			
SAFETY &		Radiated		EN55032(CISPR32)	Class A			
EMC	EMC IMMUNITY	Parameter		Standard	Test Level / Note			
(Note.5)		ESD		EN61000-4-2	Level 2, ±8KV air, ±4KV contact			
		Radiated Susceptibility		EN61000-4-3	Level 2, 3V/m			
		EFT/Burest		EN61000-4-4	Level 1, 0.5KV			
		Surge		EN61000-4-5	Level 1, 0.5KV Line-Line			
		Conducted		EN61000-4-6	Level 2, 3V(e.m.f.)			
		Magnetic Field		EN61000-4-8	Level 2, 3A/m			
OTHERS	MTBF		hrs, Other m	odels: 1170Khrs MIL-HDBK				
	DIMENSION (L*W*H)	25.4*25.4*10.2mm (1*1*0.4 inch)						
	CASE MATERIAL	Black coated copper with		ctive base				
	PACKING	18g						
NOTE	1.All parameters are speci 2.Ripple & noise are mea 3.Line regulation is meas 4.Load regulation is meas 5.The final equipment mu	ified at normal input(F:24 sured at 20MHz by using ured from low line to high sured from 0% to 100% rest be re-confirm that it st	g a 12" twist h line at rate rated load. till meet EM	C directives. For guidance of	.1µf & 47µf capacitor. on how to perform these EMC tests, please			
	refer to "EMI testing of	component power supplie	es."(as avai	able on http://www.meanwe	File Name:SKMW30,DKMW30-SPEC 2017-03			

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■ External Output Trimming

In order to trim the voltage up or down one needs to connect the trim resistor either between the trim pin and -Vo for trim-up and between trim pin and +Vo for trim-down. The output voltage trim range is \pm 10%. This is shown in Figures 1 and 2:

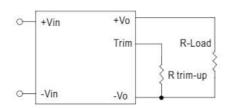


Figure 1. Trim-up Voltage Setup

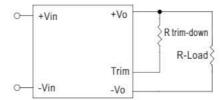
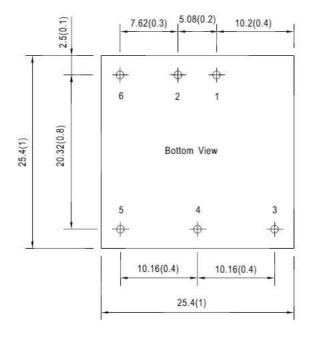
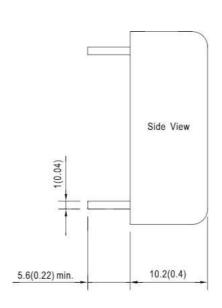


Figure 2. Trim-down Voltage Setup

■ 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")

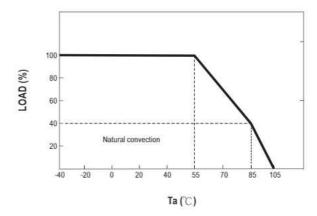




■ Plug Assignment

Pin-Out							
Pin No.	SKMW30 (Single output)	DKMW30 (Dual output)					
1	+Vin	+Vin					
2	-Vin	-Vin					
3	+Vout	+Vout					
4	Trim	Common					
5	-Vout	-Vout					
6	R.C.	R.C.					

■ Derating Curve



Installation Manual

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