MS Series



KGCOMP PRODUCTS

 Features

 ●Ultra compact size : 25.4x25.4x10.2mm

 ●Remote On/Off

 ●Primary-Secondary Isolation Voltage
 DC2200V(AC 1500V)

Models

		Input	Output	Output	Dimension
Туре	MODEL	Voltage(.V)	Voltage(V)	Current(A)	(W x H x D mm)
15W	MSS15-2403	24V(18V~36V)	3.3	0~3.5	
	MSS15-2405		5	0~3.0	
	MSS15-2412		12	0~1.25	
	MSS15-2415		15	0~1.0	25.4 x 10 x 25.4
	MSS15-4803		3.3	0~3.5	(1.0 x 0.4 x 1 inches)
	MSS15-4805	48V(36V~75V)	5	0~3.0	
	MSS15-4812		12	0~1.25	
	MSS15-4815		15	0~1.0	

MSseries

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External View



Specification

opecificat	Specification MSSTS 24V Input Model						
	Model		MSS15-2403	MSS15-2405	MSS15-2412	MSS15-2415	
Input Specificatio n	Input Range		24V(18~36V)				
	Voltage	V	3	5	12	15	
	Current	А	0~3.5	0~3.0	0~1.25	0~1.0	
	Efficiency	%	84	86	86	85	
	Start-Up time	20mS typ					
Output Specificatio n	Output voltage set accuracy	$\pm 5\%$					
	Ripple & Noise * 1	mV	200	200	150	150	
	Input Regulation	mV	20	20	20	20	
	Load Regulation(10- 100%Load)	mV	25	25	25	25	
	Temperature Coefficiency	mV	0.02% ∕ °C max				
	Drift	mV	(0.5%+15mV)max / 8H(1hour later)				
	Over Current Protection		Works Over 105% of rating and recovers automatically. Over current protection protects the unit from short-circuit and over-current condition of less than 20sec. Leaving short circuit or using under over-current cause the unit to malfunction.				
Others	Dimension	mm	25.4 x 10.0 x 25.4 (W x H x D)				
others	Weight	ხე	12				

Specification MSS15 24V Input Model

*1 Please refer to "Measuring method of Ripple and Noise" in Operation manual as for measuring method.

	Model		MSS15-4803	MSS15-4805	MSS15-4812	MSS15-4815	
	Input Range		48V(36~75V)				
Input Specificatio n	Voltage	V	3	5	12	15	
	Current	Α	0~3.5	0~3.0	0~1.25	0~1.0	
	Efficiency	%	85	87	87	86	
	Start-Up time	30mS typ					
Output Specificatio n	Ripple & Noise * 1	mV	200	200	150	150	
	Input Regulation	mV	20	20	20	20	
	Load Regulation(10- 100%負荷)	mV	25	25	25	25	
	Temperature Coefficiency	mV	0.02% ∕ °C max				
	Drift	mV	(0.5%+15mV)max / 8H(1hour later)				
	Over Current Protection		Works Over 105% of rating and recovers automatically. Over current protection protects the unit from short-circuit and over-current condition of less than 20sec. Leaving short circuit or using under over-current cause the unit to malfunction.				
Others	Dimension	mm	25.4 × 10.0 × 25.4 (W × H × D)				
	Weight	g	12				

Specification MSS15 48V Input Model

*1 Please refer to "Measuring method of Ripple and Noise" in Operation manual as for measuring method.

Gneneral Specification

Input Voltage Range	24V Model (18~36V), 48V Model (36V~ 75V)			
Tomporatura	Operating Temperature	−20 − 60°C		
Temperature	Storage Temperature	−20 − 85°C		
Humidity	Operating Temperature	20 - 85%		
numary	Storage Temperature	condensation		
	Primary-Secondary DC500V	More than 100M Ω		
Isolation Voltage (Room temperature and Humidity)	Primary-Case DC500V	More than 100M Ω		
numiaity)	Secondary-Case DC500V	More than 100M Ω		
	Primary-Secondary faradic current 10mA	2200V		
Withstand Voltage	Primary-Case faradic current 10mA	500∨		
	Secondary-Case faradic current 10mA	500V		
Vibration	10 – 55Hz 0.5mm 3axis 30minute each			
Impact	20G(3axis each)			
Cooling Method	Naturally			
EMI	FCC Part15 EN55022 VCCI(B)			

XPlease Refer to the Operation Manual.



Operation Manual

1. Pines Discription

Please refer to their own specifications.

2. Over Current Protection

If output current exceeds more 105% than rated output of the power supply, The overcurrent protection will activate and output voltage will drop. The power supply will function normally once the overcurrent condition has been removed. *Over current protection protects the unit from short-circuit and over-current condition of less than 20sec. Using under over-current cause the unit to malfunction

3. Operation Temperature and Output Capability

The range of temperature over which a power supply can be operated safely is critical to the overall life of the power supply. Operate the power supply in safe ambient condition by considering the necessary convection or forced air cooling requirement.

MSS15-2403, MSS15-2405, MSS15-4803, MSS4805







Ambient Temperature

4. Pattern Layout

If patterns are put under the power supply unit, it can be caused of increasing conduction noise and cut-down of efficiency. Please put pattern away from the power supply unit. If DC output pattern put under the power supply unit, It may makes output noise larger. Please put pattern away from the power supply unit.



5. Measuring method of Ripple and Noise Measurement condition



- $\ensuremath{\mathsf{Vr}}$: Testing point of output voltage, output regulation.
- Vn: Testing point of ripple/noise (using bayonet probe).
- C1: 33uF electrolytic capacitor
- C2: 1uF film capacitor
- C3: 10uF electroytic capacitor
- * In using, Please connect about 33uF electrolytic capacitor to the input terminal.

Remote On/Off

ON : RC Pin Open OFF: RC Pin — -Vin Pin Short (25°C)

6.Soldering

Dip 240°C~255°C ((within five seconds) Hand solder 350 ± 10 °C (within three seconds)

7.Handling Instruction

Using too large of capacitor (10,000 μ F) on your load may prevent the power supply from providing the rated output voltage. Please consider load capacitance in your application.

8.Warrantly

KAGA Components offers a 3 year warranty and we will repair or replace the power supply at no charge to the customer, provided the power supply has not been determined damaged or defective as a direct result of misuse or mishandling by the user.

9.Others

These power supplies are our standard products and designed for general purpose applications. They are not designed for use in life support systems, equipment used in hazardous environments, or nuclear control systems.