

Standard Switched-Mode Power Supply (under planning)

General AC/DC

MES ^{1CH} /MOJ ^{1CH 2CH} Series

- ◆ 85 to 264Vac input
- ◆ 10/15/30/50/75/100/150W output

Features

MES Series

1. High-end model achieving 90.5% typ. efficiency
2. Smallest class as size for case type
3. 50°C/100% Load derating characteristics

MOJ Series

1. Unique on-board structure as AC/DC converter
2. 2 outputs for some of 10W models easy to use

Standards

- UL(C-UL) 60950-1 approved for equivalent SMPS
- CE marking self-declaration (MES Series only)



[1ch Output]		Model Name	Size (mm)			Output Voltage					
Output Power	Input Voltage		Width	Depth	Height	5V	12V	15V	24V	36V	48V
15W	85 to 264Vac	MESS15	33	86.5	68	MESS15-5	MESS15-12	MESS15-15	MESS15-24	-----	MESS15-48
30W		MESS30	33	98	68	MESS30-5	MESS30-12	MESS30-15	MESS30-24	-----	MESS30-48
50W		MESS50	33	110	79	MESS50-5	MESS50-12	MESS50-15	MESS50-24	-----	MESS50-48
75W		MESS75	33	131	79	MESS75-5	MESS75-12	MESS75-15	MESS75-24	-----	MESS75-48
100W		MESS100	33	146.5	81.5	MESS100-5	MESS100-12	MESS100-15	MESS100-24	-----	MESS100-48
150W		MESS150	37.5	164.5	81.5	MESS150-5	MESS150-12	MESS150-15	MESS150-24	-----	MESS150-48

[1ch Output]		Model Name	Size (mm)			Output Voltage			
Output Power	Input Voltage		Width	Depth	Height	5V	12V	15V	24V
10W	85 to 264Vac	MOJS-SX	36	78	22	MOJS05SX-U1	MOJS12SX-U1	MOJS15SX-U1	MOJS24SX-U1

[2ch Output]		Model Name	Size (mm)			Output Voltage	
Output Power	Input Voltage		Width	Depth	Height	12V/12V	15V/15V
10W	85 to 264Vac	MOJS-WX	36	78	22	MOJS22WX-U1	MOJS23WX-U1

General DC/DC

MNV Series

1CH

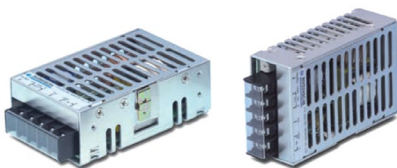
- ◆ 12/24/48Vdc input
- ◆ 100W output

Features

1. Unique case structure as DC/DC converter with terminal block type connection
2. Wide range line-up of input as 12/24/48Vdc
3. Smallest class as size for 100W power supply

Standards

- UL(C-UL) 60950-1 approved for equivalent SMPS
- CE marking self-declaration



[1ch Output]		Model Name	Size (mm)			Output Voltage				
Output Power	Input Voltage		Width	Depth	Height	3.3V	5V	12V	15V	24V
100W	9.6 to 16Vdc	MNVD-SC12	65	101	34	-----	MNVD05SC12-U1	MNVD12SC12-U1	MNVD15SC12-U1	MNVD24SC12-U1
	19 to 32Vdc	MNVD-SC24	65	101	34	MNVD3.3SC24-U1	MNVD05SC24-U1	MNVD12SC24-U1	MNVD15SC24-U1	MNVD24SC24-U1
	38 to 63Vdc	MNVD-SC48	65	101	34	-----	MNVD05SC48-U1	MNVD12SC48-U1	-----	MNVD24SC48-U1

DC/DC for Railway Vehicle

Compliant with Railway standards

MTG Series

New
MTG150 Series



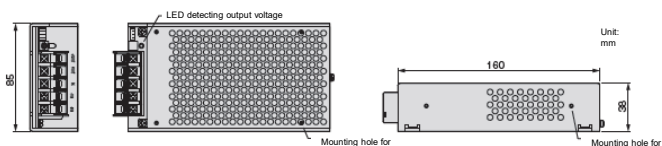
This picture is rough image.

Compliant with IEC61373(JIS E4031) Classification 1, rating B
<Vibrations> Compliant with IEC61373 Classification 1, rating B / JIS E3014 Railway signal
<Shock> Compliant with IEC61373 Classification 1, rating B / JIS E3015 Railway signal

Features

1. Wide input voltage range
25% wider range than that of conventional model (ex. 110Vdc input model: 60 to 140Vdc)
2. Excellent temperature derating
50°C/100% Load for both direction of horizontal and vertical (operation temperature range: -10 to 70°C, derating curve over 50°C)
3. Long life design
Long life 10 Years 100% Load
10 Years at 40°C/100% Load based on calculated result of life-time of aluminum electrolytic capacitor
4. -40°C Low temperature Start-Up
-40°C Start-Up guaranteed
5. Low standby power at no load
Significant reduction of standby power: Input power below 1W at no load
6. Safety constant current protection
Built-in Constant current protection circuit independent of load condition (Auto-Recovery)

MTG Series Outline



Basic Specification

Specification	Model Name	MTGS150-12SC-110	MTGS150-24SC-110
Input Specification/Characteristics			
Rated input voltage [V]		110Vdc	
Rated input current [A]		1.8	
Allowable input voltage range [V]		60 to 143Vdc	
Power conversion efficiency [%] typ.		92.5	94.0
Standby power at no load [W] max.		0.5	
Output Specification/Characteristics			
Maximum output power [W]		168	168
Rated output voltage [V]		12	24
Rated output current [A]		14	7.0
Attached Functions			
Over-Current Protection		Constant current method (Auto-Recovery by eliminating abnormal factor, no guarantee for continuous short circuit)	
Over-Voltage Protection		Output shut-down method (30 seconds after eliminating abnormal factor, recovery by power on again)	
Output Display		LED display : green light	
Remote Control (RC)		Available	
General Conditions			
Operating Temperature Range [°C]		-10 to +70 (refer to the graph of output power derating)	
Structure			
Appearance		Case type	
Size [mm] (H * W * D)		85 * 38 * 160	
Weight [g]max.		500	