

# MG Series

13-30 WATTS - DC/DC SINGLE & MULTIPLE OUTPUT

## FEATURES

- standard footprint
- Wide input range 9-36V/18-76V models
- High efficiency by synchronized rectification circuit
- I/O isolation voltage DC1,500V (1minute)
- 6 sided shield
- Single and dual voltage models
- Over current protection
- Overvoltage protection circuits 30 watt models
- Remote ON/OFF
- Output voltage adjustability
- High reliability



## SPECIFICATIONS

INPUT	
DC voltage range	9-18V, 18-36V, 36-76V (2:1) 9-36V, 18-76 (3:1)
Remote On/Off control	Negative logic L : ON, H : OFF
Isolation	Input - Output 1500VDC , 1 minute Input - Case 1000VDC, 1 minute Output - Case 1000VAC, 1 minute
OUTPUT	
Output voltage	See table
Output current	See table
External trim adj. range	Single output models, Fixed (TRM pin open) ±10% adjustable by external VR
Ripple and noise	100 – 120mV p-p max, -20-60°C, model dependant
Temperature regulation	50 – 180mV max , -20-60°C, model dependant
Line regulation 1	20 -120mV max, model dependant
Load regulation 2	40 -240mV max, model dependant
Over voltage protection	Works over 120 to 160% of rating
Over current protection	Works over 105% of rating and recovers automatically
Efficiency	86-91% typical, model dependant

ENVIRONMENTAL	
Operating temperature	-40°C to 85°C base plate
Storage temperature	
STANDARDS AND APPROVALS	
Safety	UL60950-1, C-UL, EN60950-1
MECHANICAL	
Dimensions	25.4 x 9.9 x 25.4mm, 15W models 25.4 x 9.9 x 50.8mm, 30W models
Weight	20g, 15W models 40g, 30W models

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DC-DC PCB MOUNTED CONVERTERS & POWER MODULES

## SELECTION TABLE MULTIPLE OUTPUT

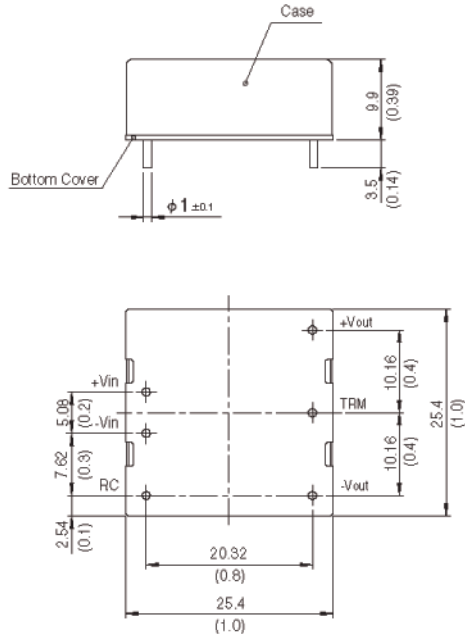
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER	MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	POWER
MGS15123R3	9-18VDC	3.3V	4A	13.2W	MGS30123R3	9-18VDC	3.3V	8A	26.4W
MGS151205		5V	3A	15W	MGS301205		5V	6A	30W
MGS151212		12V	1.3A	15.6W	MGS301212		12V	2.5A	30W
MGS151215		15V	1A	15W	MGS301215		15V	2A	30W
MGS15243R3	18-36VDC	3.3V	4A	13.2W	MGS30243R3	18-36VDC	3.3V	8A	26.4W
MGS152405		5V	3A	15W	MGS302405		5V	6A	30W
MGS152412		12V	1.3A	15.6W	MGS302412		12V	2.5A	30W
MGS152415		15V	1A	15W	MGS302415		15V	2A	30W
MGS15483R3	36-76VDC	3.3V	4A	13.2W	MGS30483R3	36-76VDC	3.3V	8A	26.4W
MGS154805		5V	3A	15W	MGS304805		5V	6A	30W
MGS154812		12V	1.3A	15.6W	MGS304812		12V	2.5A	30W
MGS154815		15V	1A	15W	MGS304815		15V	2A	30W
MGFS1524R3	9-36VDC	3.3V	4A	13.2W	MGFS3024R3	9-36VDC	3.3V	8A	26.4W
MGFS152405		5V	3A	15W	MGFS302405		5V	6A	30W
MGFS152412		12V	1.3A	15.6W	MGFS302412		12V	2.5A	30W
MGFS152415		15V	1A	15W	MGFS302415		15V	2A	30W
MGFS1548R3	18-76VDC	3.3V	4A	13.2W	MGFS3048R3	18-76VDC	3.3V	8A	26.4W
MGFS154805		5V	3A	15W	MGFS304805		5V	6A	30W
MGFS154812		12V	1.3A	15.6W	MGFS304812		12V	2.5A	30W
MGFS154815		15V	1A	15W	MGFS304815		15V	2A	30W
MGW151205	9-18VDC	±5V / +10V	1.5A	15W	MGW301205	9-18VDC	±5V / +10V	2.5A	25W
MGW151212		±12V / +24V	0.65A	15.6W	MGW301212		±12V / +24V	1.5A	30W
MGW151215		±15V / +30V	0.5A	15W	MGW301215		±15V / +30V	1A	30W
MGW152405	18-36VDC	±5V / +10V	1.5A	15W	MGW302405	18-36VDC	±5V / +10V	2.5A	25W
MGW152412		±12V / +24V	0.65A	15.6W	MGW302412		±12V / +24V	1.5A	30W
MGW152415		±15V / +30V	0.5A	15W	MGW302415		±15V / +30V	1A	30W
MGW154805	36-76VDC	±5V / +10V	1.5A	15W	MGW304805	36-76VDC	±5V / +10V	2.5A	25W
MGW154812		±12V / +24V	0.65A	15.6W	MGW304812		±12V / +24V	1.5A	30W
MGW154815		±15V / +30V	0.5A	15W	MGW304815		±15V / +30V	1A	30W
MGFW152405	9-36VDC	±5V / +10V	1.5A	15W	MGFW302405	9-36VDC	±5V / +10V	2A	20W
MGFW152412		±12V / +24V	0.65A	15.6W	MGFW302412		±12V / +24V	1.25A	30W
MGFW152415		±15V / +30V	0.5A	15W	MGFW302415		±15V / +30V	1A	30W
MGFW154805	18-76VDC	±5V / +10V	1.5A	15W	MGFW304805	18-76VDC	±5V / +10V	2A	20W
MGFW154812		±12V / +24V	0.65A	15.6W	MGFW304812		±12V / +24V	1.25A	30W
MGFW154815		±15V / +30V	0.5A	15W	MGFW304815		±15V / +30V	1A	30W

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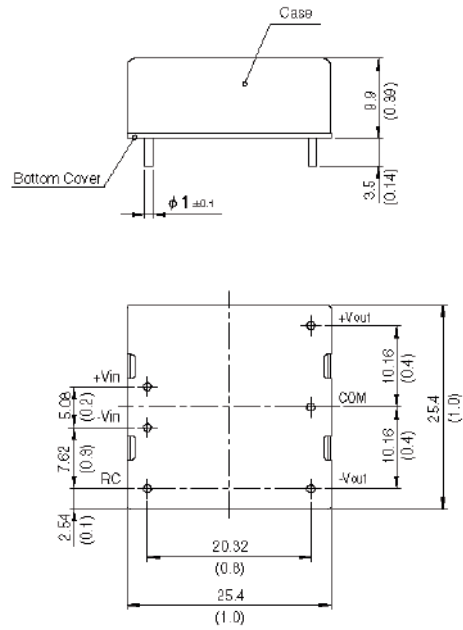
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## TECHNICAL ILLUSTRATIONS

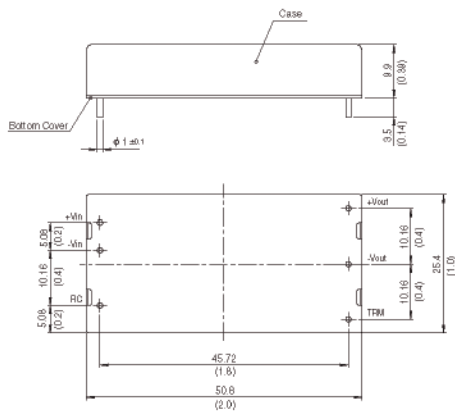
**MGS15**



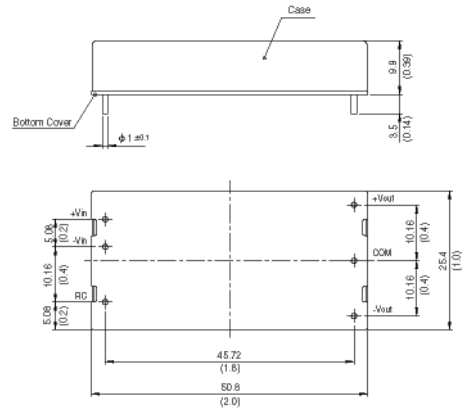
**MGW/FW15**



**MGS30**



**MGW/FW30**



DC-DC PCB MOUNTED CONVERTERS & POWER MODULES