

MGFW40

MGF W 40 24 05 -

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional
- G: Capacitor between Input and Output is removed.
- R: with Remote ON/OFF (Positive logic control)

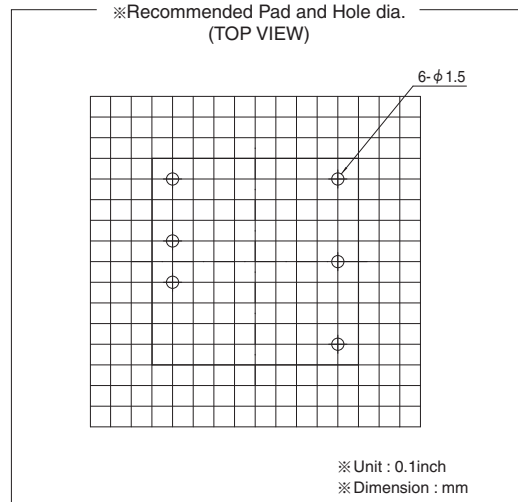
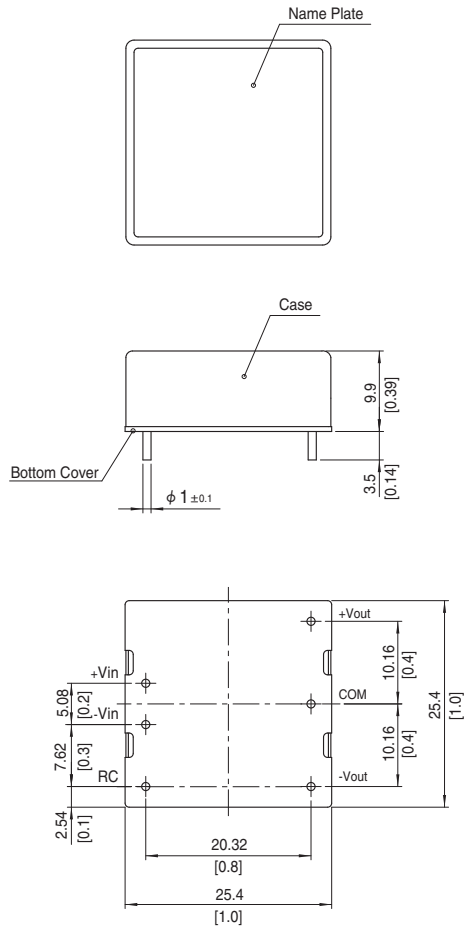
MODEL	MGFW400512	MGFW400515	MGFW402412	MGFW402415	MGFW404812	MGFW404815	
MAX OUTPUT WATTAGE[W]	31.2	30	40.8	42	40.8	42	
DC OUTPUT	VOLTAGE[V] *1	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	1.3	1	1.7	1.4	1.7	1.4

SPECIFICATIONS

	MODEL	MGFW400512	MGFW400515	MGFW402412	MGFW402415	MGFW404812	MGFW404815	
INPUT	VOLTAGE[V]	DC4.5 - 13 (Surge Voltage 15V, 100ms max)		DC9 - 36 (Surge Voltage 50V, 100ms max)		DC18 - 76 (Surge Voltage 100V, 100ms max)		
	CURRENT[A] *2	7.26typ	6.90typ	1.87typ	1.92typ	0.93typ	0.96typ	
	EFFICIENCY[%] *2	86typ	87typ	91typ	91typ	91typ	91typ	
OUTPUT	VOLTAGE[V]	±12(+24)	±15(+30)	±12(+24)	±15(+30)	±12(+24)	±15(+30)	
	CURRENT[A]	1.3	1	1.7	1.4	1.7	1.4	
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	
	LOAD REGULATION[mV]	*3	600max	750max	600max	750max	600max	750max
		*4	480max	600max	480max	600max	480max	600max
	RIPPLE[mVp-p] *5	-20 to +60°C	100max	100max	100max	100max	100max	100max
		-40 to -20°C	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *5	-20 to +60°C	100max	100max	100max	100max	100max	100max
		-40 to -20°C	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV]	-20 to +60°C	150max	180max	150max	180max	150max	180max
		-40 to +60°C	240max	290max	240max	290max	240max	290max
DRIFT[mV] *6	50max	60max	50max	60max	50max	60max		
START-UP TIME[ms]	30max (Minimum input, Rated load)							
OUTPUT VOLTAGE SETTING[V]*7	11.765 - 12.492	14.602 - 15.505	11.765 - 12.492	14.602 - 15.505	11.765 - 12.492	14.602 - 15.505		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically						
	OVERVOLTAGE PROTECTION	Work over 115 to 140% of rating (Total of +Vo and -Vo)						
	REMOTE ON/OFF	Provided (Negative logic L:ON, H:OFF)						
ISOLATION	INPUT-OUTPUT	DC1,500V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C)						
	INPUT-CASE	DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C)						
	OUTPUT-CASE	DC1,000V 1minute, Cutoff current = 10mA, DC500V 1,000MΩ min (20±15°C)						
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	-40 to +85°C, 20 to 95%RH (Non condensing) (Required Derating), 3,000m (10,000feet) max						
	STORAGE TEMP., HUMID. AND ALTITUDE	-40 to +100°C, 20 to 95%RH (Non condensing), 9,000m (30,000feet) max						
	VIBRATION	10 - 55Hz, 98.0m/s ² (10G), 3minutes period, 60minutes each along X, Y and Z axis						
	IMPACT	490.3m/s ² (50G), 11ms, once each along X, Y and Z axis						
SAFETY	AGENCY APPROVALS	UL62368-1, C-UL (CSA62368-1), EN62368-1						
OTHERS	CASE SIZE/WEIGHT	25.4 × 9.9 × 25.4mm (W × H × D) / 30g max						
	COOLING METHOD	Convection/Forced air						

*1 Single output +24V/+30V with no use of COM
 *2 Rated input voltage(DC5V, DC24V, DC48V) Io=100%
 *3 Symmetrical loading from 0% to 100%
 *4 Symmetrical loading from 20% to 100%
 *5 Ripple and Ripple Noizu is measured by using test board with ceramic capacitor 22μF and Recommended Capacitance at 50mm from output pins. (20MHz Oscilloscope)
 *6 Drift is the DC output accuracy for eight hour period after a half-hour warm-up at 25°C
 *7 Rated input voltage (DC5V, DC24V, DC48V), rated output wattage, ambient temperature at 25°C
 * Parallel operation with other model is not possible.

External view



- ※ Tolerance ± 0.5 [± 0.02]
- ※ Dimensions in mm, []=inches
- ※ Pin terminal material : Copper
- ※ Plating treatment of terminal : Lead free plating
- ※ Case material : Brass
- ※ Plating treatment of case : Nickel plating
- ※ Bottom Cover : FR4 ($t=0.6$) [$t=0.024$]
- ※ Please keep enough creepage distance with the pattern on PCB and other components.
- ※ Weight 30g max