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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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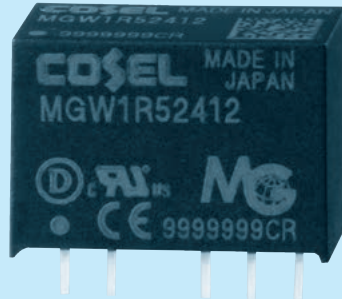
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



MGW1R5

MG W 1R5 24 12 -□

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional

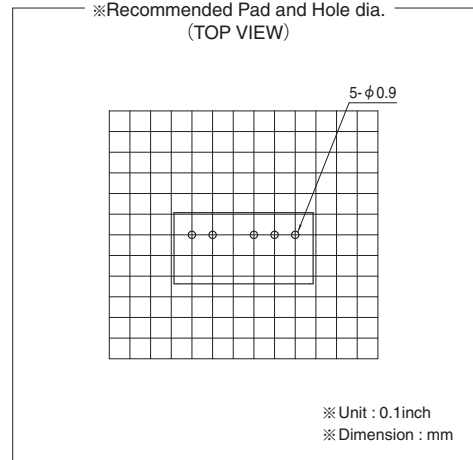
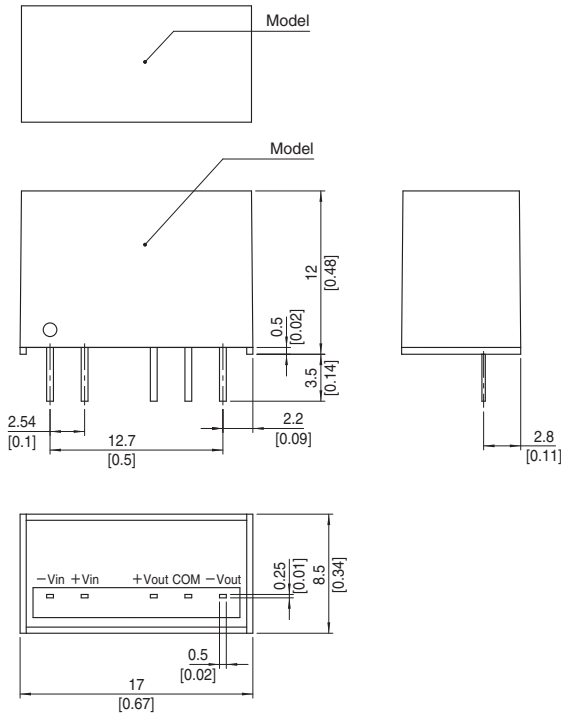
MODEL	MGW1R50512	MGW1R50515	MGW1R51212	MGW1R51215	MGW1R52412	MGW1R52415	MGW1R54812	MGW1R54815	
MAX OUTPUT WATTAGE[W]	1.56	1.50	1.56	1.50	1.56	1.50	1.56	1.50	
DC OUTPUT	VOLTAGE[V] *1	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.065	0.05	0.065	0.05	0.065	0.05	0.065	0.05

SPECIFICATIONS

	MODEL	MGW1R50512	MGW1R50515	MGW1R51212	MGW1R51215	MGW1R52412	MGW1R52415	MGW1R54812	MGW1R54815	
INPUT	VOLTAGE[V]	DC4.5 - 9 (Surge voltage 12.5V, 100ms max)		DC9 - 18 (Surge voltage 25V, 100ms max)		DC18 - 36 (Surge voltage 50V, 100ms max)		DC36 - 76 (Surge voltage 100V, 100ms max)		
	CURRENT[A]	*2 0.38typ	0.38typ	0.16typ	0.16typ	0.080typ	0.079typ	0.041typ	0.040typ	
	EFFICIENCY[%]	*2 83typ	81typ	83typ	81typ	82typ	80typ	81typ	80typ	
OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	
	CURRENT[A]	0.065	0.05	0.065	0.05	0.065	0.05	0.065	0.05	
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max	
	LOAD REGULATION[mV]	*3 480max	600max	480max	600max	480max	600max	480max	600max	
		*4 600max	750max	600max	750max	600max	750max	600max	750max	
	RIPPLE[mVp-p]	*5 150max	150max	150max	150max	150max	150max	150max	150max	
	RIPPLE NOISE[mVp-p]	*5 200max	200max	200max	200max	200max	200max	200max	200max	
	TEMPERATURE REGULATION[mV]	-20 to +85°C	210max	260max	210max	260max	210max	260max	210max	260max
		-40 to +85°C	320max	390max	320max	390max	320max	390max	320max	390max
	DRIFT[mV]	*6 48max	60max	48max	60max	48max	60max	48max	60max	
START-UP TIME[ms]	30max (Minimum input, I _o =100%)									
OUTPUT VOLTAGE SETTING[V]	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45		
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically								
ISOLATION	INPUT-OUTPUT	DC1,500V or AC1,000V 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), 5,000m (16,400feet) 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), 3minute 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	UL60950-1, C-UL, EN60950-1								
OTHERS	CASE SIZE/WEIGHT	17.0 × 12.0 × 8.5mm [0.67 × 0.48 × 0.34 inches] (W × H × D) / 4g max								
	COOLING METHOD	Convection/Forced air								

*1 Single output +24V, +30V with no use of COM.
 *2 Rated input 5V, 12V, 24V or 48V DC I_o=100%
 *3 Symmetrical loading from 20% to 100%.
 *4 Symmetrical loading from 0% to 100%.
 *5 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 1μF at 50mm from output pins. (20MHz Oscilloscope)
 *6 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.
 * Parallel operation with other model is not possible.

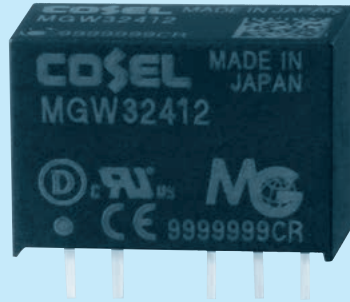
External view



- ※ Tolerance ± 0.5 [± 0.02]
- ※ Dimensions in mm, []= inches
- ※ Pin terminal material : Copper
- ※ Planting treatment of terminal : Lead free plating
- ※ Case material : PBT
- ※ Weight 4g max

MGW3

① MG ② W ③ 3 ④ 24 ⑤ 12 ⑥ - □



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional

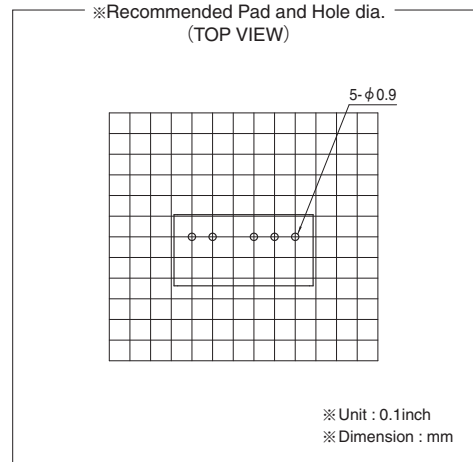
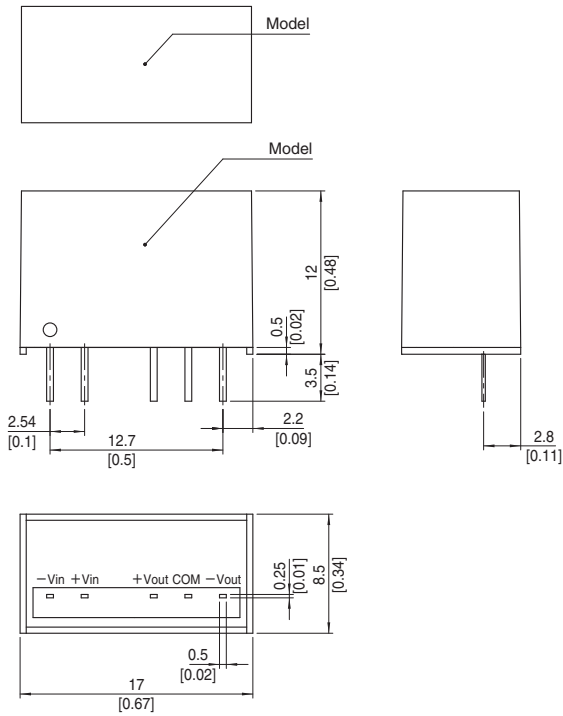
MODEL	MGW30512	MGW30515	MGW31212	MGW31215	MGW32412	MGW32415	MGW34812	MGW34815
MAX OUTPUT WATTAGE[W]	3.12	3.00	3.12	3.00	3.12	3.00	3.12	3.00
DC OUTPUT	VOLTAGE[V] *1	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24
	CURRENT[A]	0.13	0.1	0.13	0.1	0.13	0.1	0.13

SPECIFICATIONS

	MODEL	MGW30512	MGW30515	MGW31212	MGW31215	MGW32412	MGW32415	MGW34812	MGW34815	
INPUT	VOLTAGE[V]	DC4.5 - 9 (Surge voltage 12.5V, 100ms max)		DC9 - 18 (Surge voltage 25V, 100ms max)		DC18 - 36 (Surge voltage 50V, 100ms max)		DC36 - 76 (Surge voltage 100V, 100ms max)		
	CURRENT[A] *2	0.76typ	0.74typ	0.31typ	0.31typ	0.16typ	0.16typ	0.080typ	0.077typ	
	EFFICIENCY[%] *2	83typ	82typ	84typ	83typ	83typ	83typ	82typ	82typ	
OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	
	CURRENT[A]	0.13	0.1	0.13	0.1	0.13	0.1	0.13	0.1	
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max	
	LOAD REGULATION[mV]	*3	480max	600max	480max	600max	480max	600max	480max	600max
		*4	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p] *5	150max	150max	150max	150max	150max	150max	150max	150max	
	RIPPLE NOISE[mVp-p] *5	200max	200max	200max	200max	200max	200max	200max	200max	
	TEMPERATURE REGULATION[mV]	-20 to +70°C	180max	220max	180max	220max	180max	220max	180max	220max
		-40 to +70°C	290max	340max	290max	340max	290max	340max	290max	340max
	DRIFT[mV] *6	48max	60max	48max	60max	48max	60max	48max	60max	
START-UP TIME[ms]	30max (Minimum input, I _o =100%)									
OUTPUT VOLTAGE SETTING[V]	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45		
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically								
ISOLATION	INPUT-OUTPUT	DC1,500V or AC1,000V 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), 5,000m (16,400feet) 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), 3minute 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	UL60950-1, C-UL, EN60950-1								
OTHERS	CASE SIZE/WEIGHT	17.0 X 12.0 X 8.5mm [0.67 X 0.48 X 0.34 inches] (W X H X D) / 4g max								
	COOLING METHOD	Convection/Forced air								

*1 Single output +24V, +30V with no use of COM.
 *2 Rated input 5V, 12V, 24V or 48V DC I_o=100%
 *3 Symmetrical loading from 20% to 100%.
 *4 Symmetrical loading from 0% to 100%.
 *5 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 1μF at 50mm from output pins. (20MHz Oscilloscope)
 *6 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.
 * Parallel operation with other model is not possible.

External view

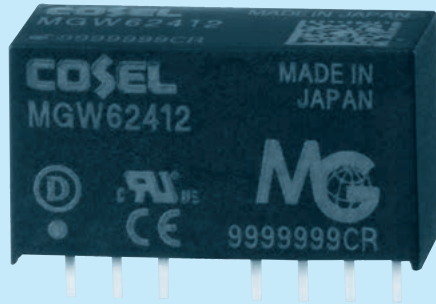


- ※ Tolerance ± 0.5 [± 0.02]
- ※ Dimensions in mm, []= inches
- ※ Pin terminal material : Copper
- ※ Planting treatment of terminal : Lead free plating
- ※ Case material : PBT
- ※ Weight 4g max

MGW6

MG W 6 24 12 - □

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional
- Y2: Output voltage adjustable (+10%, -5%)

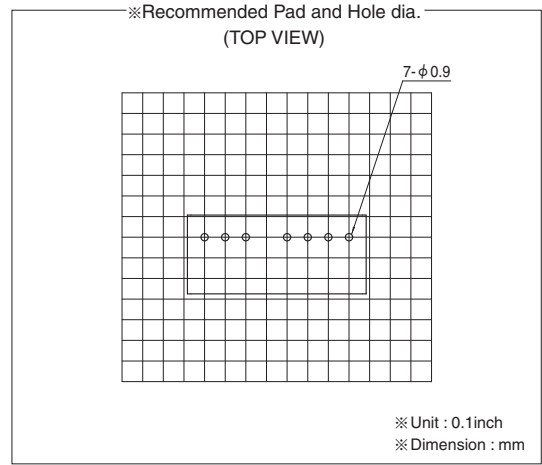
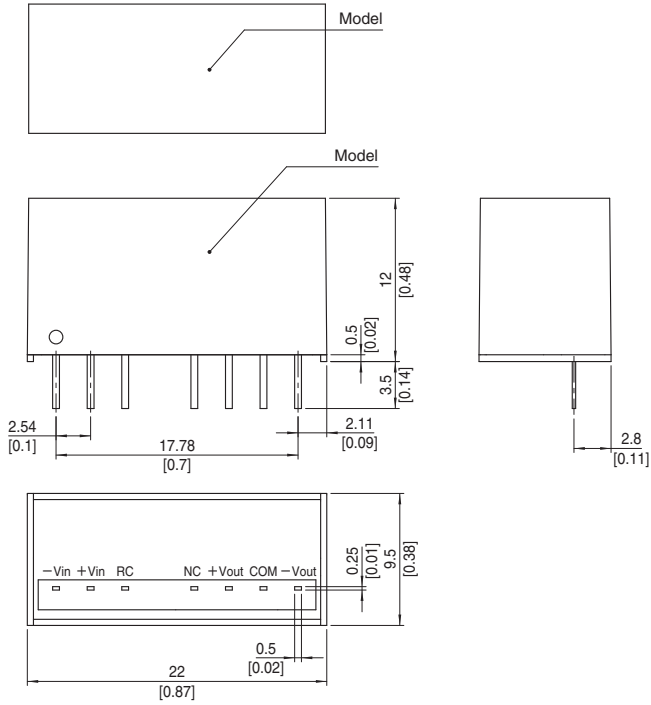
MODEL	MGW60512	MGW60515	MGW61212	MGW61215	MGW62412	MGW62415	MGW64812	MGW64815
MAX OUTPUT WATTAGE[W]	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00
DC OUTPUT	VOLTAGE[V] *1	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24
	CURRENT[A]	0.25	0.2	0.25	0.2	0.25	0.2	0.25

SPECIFICATIONS

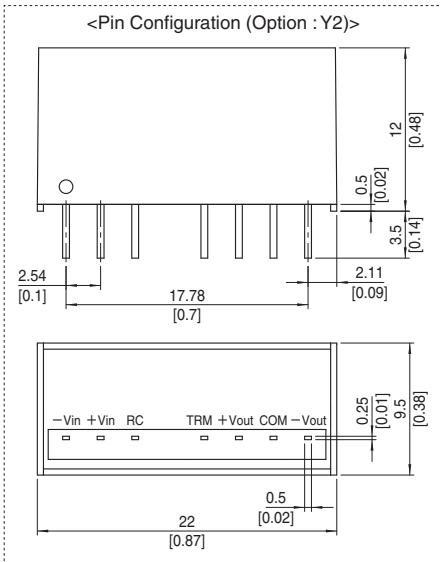
	MODEL	MGW60512	MGW60515	MGW61212	MGW61215	MGW62412	MGW62415	MGW64812	MGW64815	
INPUT	VOLTAGE[V]	DC4.5 - 9 (Surge voltage 12.5V, 100ms max)		DC9 - 18 (Surge voltage 25V, 100ms max)		DC18 - 36 (Surge voltage 50V, 100ms max)		DC36 - 76 (Surge voltage 100V, 100ms max)		
	CURRENT[A] *2	1.38typ	1.38typ	0.57typ	0.57typ	0.29typ	0.29typ	0.15typ	0.15typ	
	EFFICIENCY[%] *2	87typ	87typ	88typ	88typ	88typ	88typ	88typ	88typ	
OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	
	CURRENT[A]	0.25	0.2	0.25	0.2	0.25	0.2	0.25	0.2	
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max	
	LOAD REGULATION[mV]	*3	480max	600max	480max	600max	480max	600max	480max	600max
		*4	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p]	Po=30% to	120max	120max	120max	120max	120max	120max	120max	120max
		*5 Po=0 to 30%	480max	480max	360max	360max	360max	360max	360max	360max
	RIPPLE NOISE[mVp-p]	Po=30% to	200max	200max	200max	200max	200max	200max	200max	200max
		*5 Po=0 to 30%	600max	600max	500max	500max	500max	500max	500max	500max
	TEMPERATURE REGULATION[mV]	-20 to +70°C	180max	220max	180max	220max	180max	220max	180max	220max
-40 to +70°C		290max	340max	290max	340max	290max	340max	290max	340max	
DRIFT[mV] *6	48max	60max	48max	60max	48max	60max	48max	60max		
START-UP TIME[ms]	30max (Minimum input, Io=100%)									
OUTPUT VOLTAGE SETTING[V]	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically								
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)								
ISOLATION	INPUT-OUTPUT	DC1,500V or AC1,000V 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), 5,000m (16,400feet) 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), 3minute 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	UL60950-1, C-UL, EN60950-1								
OTHERS	CASE SIZE/WEIGHT	22.0 X 12.0 X 9.5mm [0.87 X 0.48 X 0.38 inches] (W X H X D) / 7g max								
	COOLING METHOD	Convection/Forced air								

*1 Single output +24V, +30V with no use of COM.
 *2 Rated input 5V, 12V, 24V or 48V DC Io=100%
 *3 Symmetrical loading from 20% to 100%.
 *4 Symmetrical loading from 0% to 100%.
 *5 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 1μF at 50mm from output pins. (20MHz Oscilloscope). Po:Output wattage.
 *6 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.
 * Parallel operation with other model is not possible.

External view



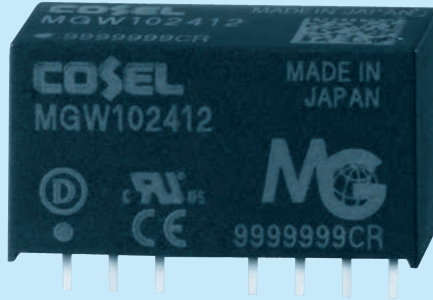
- ※ Tolerance ± 0.5 [± 0.02]
- ※ Dimensions in mm, []= inches
- ※ Pin terminal material : Copper
- ※ Planting treatment of terminal : Lead free plating
- ※ Case material : PBT
- ※ Weight 7g max



MGW10

MG W 10 24 12 - □

① ② ③ ④ ⑤ ⑥



- ① Series name
- ② Dual output
- ③ Output wattage
- ④ Input voltage
- ⑤ Output voltage
- ⑥ Optional
- Y2: Output voltage adjustable (+10%, -5%)

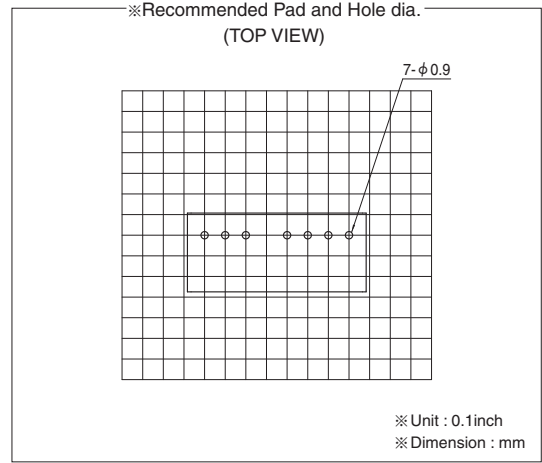
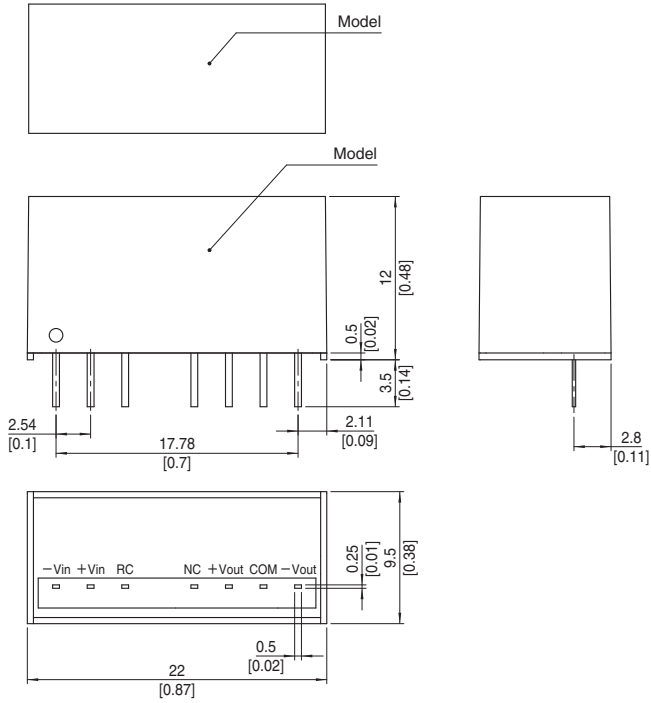
MODEL	MGW100512	MGW100515	MGW101212	MGW101215	MGW102412	MGW102415	MGW104812	MGW104815	
MAX OUTPUT WATTAGE[W]	10.08	10.20	10.08	10.20	10.08	10.20	10.08	10.20	
DC OUTPUT	VOLTAGE[V] *1	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30
	CURRENT[A]	0.42	0.34	0.42	0.34	0.42	0.34	0.42	0.34

SPECIFICATIONS

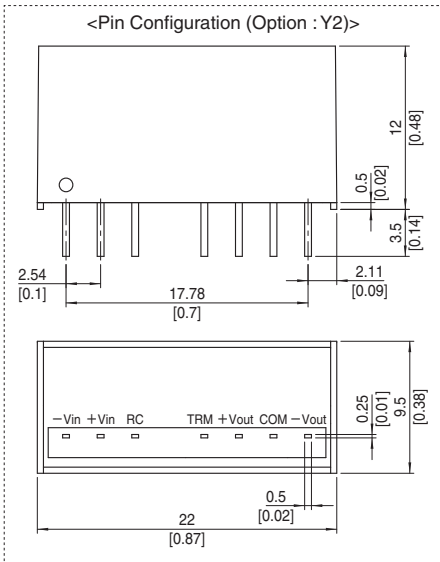
	MODEL	MGW100512	MGW100515	MGW101212	MGW101215	MGW102412	MGW102415	MGW104812	MGW104815	
INPUT	VOLTAGE[V]	DC4.5 - 9 (Surge voltage 12.5V, 100ms max)		DC9 - 18 (Surge voltage 25V, 100ms max)		DC18 - 36 (Surge voltage 50V, 100ms max)		DC36 - 76 (Surge voltage 100V, 100ms max)		
	CURRENT[A] *2	2.38typ	2.40typ	0.97typ	0.97typ	0.49typ	0.49typ	0.24typ	0.25typ	
	EFFICIENCY[%] *2	85typ	85typ	87typ	88typ	87typ	88typ	88typ	88typ	
OUTPUT	VOLTAGE[V]	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	±12 or +24	±15 or +30	
	CURRENT[A]	0.42	0.34	0.42	0.34	0.42	0.34	0.42	0.34	
	LINE REGULATION[mV]	60max	75max	60max	75max	60max	75max	60max	75max	
	LOAD REGULATION[mV]	*3	480max	600max	480max	600max	480max	600max	480max	600max
		*4	600max	750max	600max	750max	600max	750max	600max	750max
	RIPPLE[mVp-p]	Po=30% to	120max	120max	120max	120max	120max	120max	120max	120max
		*5 Po=0 to 30%	480max	480max	360max	360max	360max	360max	360max	360max
	RIPPLE NOISE[mVp-p]	Po=30% to	200max	200max	200max	200max	200max	200max	200max	200max
		*5 Po=0 to 30%	600max	600max	500max	500max	500max	500max	500max	500max
	TEMPERATURE REGULATION[mV]	-20 to +50°C	150max	180max	150max	180max	150max	180max	150max	180max
	-40 to +50°C	240max	290max	240max	290max	240max	290max	240max	290max	
DRIFT[mV] *6		48max	60max	48max	60max	48max	60max	48max	60max	
START-UP TIME[ms]		30max (Minimum input, Io=100%)								
OUTPUT VOLTAGE SETTING[V]		11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	11.64 - 12.36	14.55 - 15.45	
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically								
	REMOTE ON/OFF	Provided (Negative logic L : ON, H : OFF)								
ISOLATION	INPUT-OUTPUT	DC1,500V or AC1,000V 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), 5,000m (16,400feet) 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), 3minute 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	UL60950-1, C-UL, EN60950-1								
OTHERS	CASE SIZE/WEIGHT	22.0 X 12.0 X 9.5mm [0.87 X 0.48 X 0.38 inches] (W X H X D) / 7g max								
	COOLING METHOD	Convection/Forced air								

*1 Single output +24V, +30V with no use of COM.
 *2 Rated input 5V, 12V, 24V or 48V DC Io=100%
 *3 Symmetrical loading from 20% to 100%.
 *4 Symmetrical loading from 0% to 100%.
 *5 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 1μF at 50mm from output pins. (20MHz Oscilloscope). Po:Output wattage.
 *6 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.
 * Parallel operation with other model is not possible.

External view



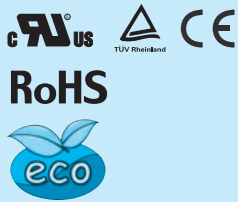
- ※ Tolerance ± 0.5 [± 0.02]
- ※ Dimensions in mm, []= inches
- ※ Pin terminal material : Copper
- ※ Planting treatment of terminal : Lead free plating
- ※ Case material : PBT
- ※ Weight 7g max



MGW15

MG W 15 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)

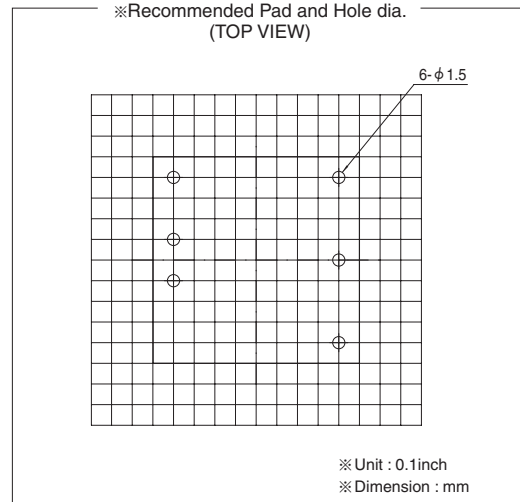
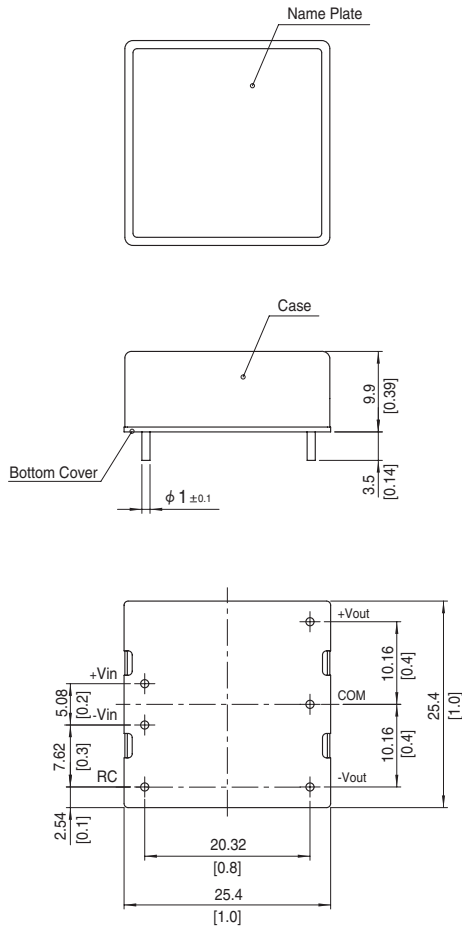
MODEL	MGW151205	MGW151212	MGW151215	MGW152405	MGW152412	MGW152415	MGW154805	MGW154812	MGW154815	
MAX OUTPUT WATTAGE[W]	15	15.6	15	15	15.6	15	15	15.6	15	
DC OUTPUT	VOLTAGE[V] *1	±5 or +10	±12 or +24	±15 or +30	±5 or +10	±12 or +24	±15 or +30	±5 or +10	±12 or +24	±15 or +30
	CURRENT[A]	1.5	0.65	0.5	1.5	0.65	0.5	1.5	0.65	0.5

SPECIFICATIONS

	MODEL	MGW151205	MGW151212	MGW151215	MGW152405	MGW152412	MGW152415	MGW154805	MGW154812	MGW154815	
INPUT	VOLTAGE[V]	DC9 - 18			DC18 - 36			DC36 - 76			
	CURRENT[A] *2	1.48typ	1.49typ	1.42typ	0.74typ	0.74typ	0.70typ	0.37typ	0.37typ	0.35typ	
	EFFICIENCY[%] *2	84typ	87typ	88typ	84typ	88typ	89typ	84typ	89typ	89typ	
OUTPUT	VOLTAGE[V]	±5(+10)	±12(+24)	±15(+30)	±5(+10)	±12(+24)	±15(+30)	±5(+10)	±12(+24)	±15(+30)	
	CURRENT[A]	1.5	0.65	0.5	1.5	0.65	0.5	1.5	0.65	0.5	
	LINE REGULATION[mV]	40max	60max	75max	40max	60max	75max	40max	60max	75max	
	LOAD REGULATION[mV]	*3	500max *5	600max	750max	500max *5	600max	750max	500max *5	600max	750max
		*4	250max	480max	600max	250max	480max	600max	250max	480max	600max
	RIPPLE[mVp-p] *6	-20 to +60°C	100max	100max	100max	100max	100max	100max	100max	100max	100max
		-40 to -20°C	120max	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *6	-20 to +60°C	100max	100max	100max	100max	100max	100max	100max	100max	100max
		-40 to -20°C	150max	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV]	-20 to +60°C	50max	150max	180max	50max	150max	180max	50max	150max	180max
-40 to +60°C		80max	240max	290max	80max	240max	290max	80max	240max	290max	
DRIFT[mV] *7	50max	50max	60max	50max	50max	60max	50max	50max	60max		
START-UP TIME[ms]	30max (Minimum input, lo=100%)										
OUTPUT VOLTAGE SETTING[V] *8	4.935 - 5.240	11.765 - 12.492	14.602 - 15.505	4.935 - 5.240	11.765 - 12.492	14.602 - 15.505	4.935 - 5.240	11.765 - 12.492	14.602 - 15.505		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically									
	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	UL60950-1, C-UL, EN60950-1									
OTHERS	CASE SIZE/WEIGHT	25.4 × 9.9 × 25.4mm [1 × 0.39 × 1 inches] (W × H × D) / 20g max									
	COOLING METHOD	Convection/Forced air									

*1 Single output +10V, +24V, +30V with no use of COM.
 *2 Rated input 12V, 24V or 48V lo=100%
 *3 An output load is 100%, the other load is 5% to 100%.
 *4 An output load is 100%, the other load is 20% to 100%.
 *5 Refer to the instruction manual 11.
 *6 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 22μF at 50mm from output pins. (20MHz Oscilloscope)
 *7 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.
 *8 Rated input voltage (DC12V, DC24V, DC48V), rated output wattage, ambient temperature at 25°C.
 * Parallel operation with other model is not possible.

External view

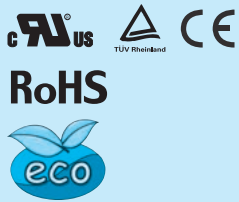


- ※ Tolerance ± 0.5 [± 0.02]
- ※ Dimensions in mm, []=inches
- ※ Pin terminal material : Copper
- ※ Plating treatment of terminal : Lead free plating
- ※ Case material : Brass
- ※ Plating treatment of case : Nickel plating
- ※ Bottom Cover : FR4 (t=0.6) [t=0.024]
- ※ Please keep enough creepage distance with the pattern on PCB and other components.
- ※ Weight 20g max

MGW30

MG W 30 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	MGW301205	MGW301212	MGW301215	MGW302405	MGW302412	MGW302415	MGW304805	MGW304812	MGW304815	
MAX OUTPUT WATTAGE[W]	25	30	30	25	30	30	25	30	30	
DC OUTPUT	VOLTAGE[V] *1	±5 or +10	±12 or +24	±15 or +30	±5 or +10	±12 or +24	±15 or +30	±5 or +10	±12 or +24	±15 or +30
	CURRENT[A]	2.5	1.25	1	2.5	1.25	1	2.5	1.25	1

SPECIFICATIONS

	MODEL	MGW301205	MGW301212	MGW301215	MGW302405	MGW302412	MGW302415	MGW304805	MGW304812	MGW304815	
INPUT	VOLTAGE[V]	DC9 - 18			DC18 - 36			DC36 - 76			
	CURRENT[A] *2	2.42typ	2.78typ	2.78typ	1.20typ	1.38typ	1.38typ	0.60typ	0.70typ	0.70typ	
	EFFICIENCY[%] *2	86typ	90typ	90typ	87typ	91typ	91typ	87typ	90typ	90typ	
OUTPUT	VOLTAGE[V]	±5(+10)	±12(+24)	±15(+30)	±5(+10)	±12(+24)	±15(+30)	±5(+10)	±12(+24)	±15(+30)	
	CURRENT[A]	2.5	1.25	1	2.5	1.25	1	2.5	1.25	1	
	LINE REGULATION[mV]	40max	60max	75max	40max	60max	75max	40max	60max	75max	
	LOAD REGULATION[mV]	*3	500max *5	600max	750max	500max *5	600max	750max	500max *5	600max	750max
		*4	250max	480max	600max	250max	480max	600max	250max	480max	600max
	RIPPLE[mVp-p] *6	-20 to +60°C	100max	100max	100max	100max	100max	100max	100max	100max	100max
		-40 to -20°C	120max	120max	120max	120max	120max	120max	120max	120max	120max
	RIPPLE NOISE[mVp-p] *6	-20 to +60°C	100max	100max	100max	100max	100max	100max	100max	100max	100max
		-40 to -20°C	150max	150max	150max	150max	150max	150max	150max	150max	150max
	TEMPERATURE REGULATION[mV]	-20 to +60°C	50max	150max	180max	50max	150max	180max	50max	150max	180max
		-40 to +60°C	80max	240max	290max	80max	240max	290max	80max	240max	290max
DRIFT[mV] *7	50max	50max	60max	50max	50max	60max	50max	50max	60max		
START-UP TIME[ms]	30max (Minimum input, I _o =100%)										
OUTPUT VOLTAGE SETTING[V]*8	4.935 - 5.240	11.765 - 12.492	14.602 - 15.505	4.935 - 5.240	11.765 - 12.492	14.602 - 15.505	4.935 - 5.240	11.765 - 12.492	14.602 - 15.505		
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically									
	OVERVOLTAGE PROTECTION[V]	Works over 120 to 160% of rating (Total of +V and -V)									
	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	UL60950-1, C-UL, EN60950-1									
OTHERS	CASE SIZE/WEIGHT	25.4 × 9.9 × 50.8mm [1 × 0.39 × 2 inches] (W × H × D) / 40g max									
	COOLING METHOD	Convection/Forced air									

*1 Single output +10V, +24V, +30V with no use of COM.

*2 Rated input 12V, 24V or 48V DC I_o=100%

*3 Symmetrical loading from 5% to 100%.

*4 Symmetrical loading from 20% to 100%.

*5 Refer to the instruction manual 11.

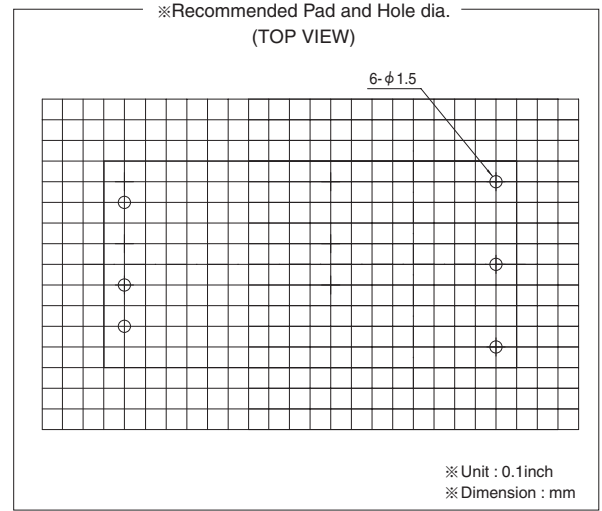
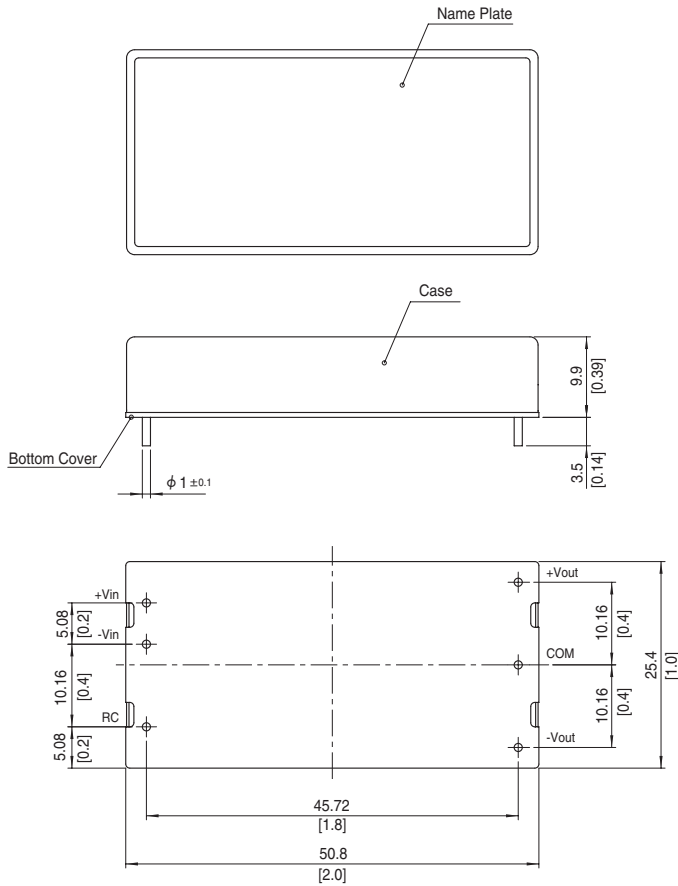
*6 Ripple and Ripple Noise is measured by using test board with ceramic capacitor 22μF at 50mm from output pins. (20MHz Oscilloscope)

*7 Drift is the DC output accuracy for eight hours period after a half-hour warm-up at 25°C.

*8 Rated input voltage (DC12V, 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 40g max