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Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

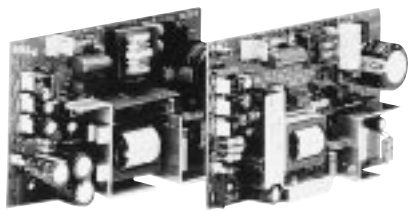
FEATURES

- This series of light weight power supplies handles a wide range of source voltages(not used for switching between AC.100 and 200V) and provides multiple output voltages.
- Open frame.
- MRW-140, MRW-150, MRW-151, MRW-160 and MRW-161 types are equipped with operation indicator lights.
- These low noise power supplies are FCC class B compliant.

PART NUMBERS AND RATINGS

Part No.	Maximum output power* (W)	Output voltage1 V_1		Output voltage2 V_2		Output voltage3 V_3	
		Voltage(V)	Current(A)	Voltage (V)	Current (A)	Voltage (V)	Current (A)
MRW-140	25.4	+5	0.2 to 1	+12	0.3 to 1.7		
MRW-130	25.5	+5	0.5 to 1.5	+12	0.3 to 1.5[1.7, 10s]		
MRW-135	28	+5	0.5 to 2	+12	0.3 to 1.5[2.5, 3s]		
MRW-150	35	+5	1 to 2.2[Max.4]	+12	0.6 to 1.8[Max.2.5]	–12	0 to 0.1[Max.0.3]
MRW-151	35	+5	1 to 2.2[Max.4]	+15	0.5 to 1.4[Max.2]	–15	0 to 0.1[Max.0.25]
MRW-350	40	+5	0.5 to 3	+12	0.3 to 2	–12	0 to 0.1
MRW-351	40	+5	0.5 to 3	+15.6	0.3 to 1.6	–15	0 to 0.1
MRW-352	40	+3.3	0.5 to 4	+12	0.3 to 2	–12	0 to 0.1
MRW-160	50	+5	1 to 5[Max.6]	+12	0.6 to 2[Max.2.5]	–12	0 to 0.1[Max.0.5]
MRW-161	50	+5	1 to 5[Max.6]	+15	0.5 to 1.5[Max.2]	–15	0 to 0.1[Max.0.4]
MRW-170	65	+5	0.8 to 5[Max.7]	+12	0.3 to 1.7[Max.2.5]	–12	0.3 to 0.7[Max.2.5]
MRW-171	65	+5	0.8 to 5[Max.7]	+15.8	0.3 to 1.3[Max.2]	–15.8	0.3 to 1.3[Max.2]

* Total output power(sum of the respective[output voltage × output current] values) can not exceed this maximum output power.



⚠ Specifications which provide more details for the proper and safe use of the described product are available upon request.
All specifications are subject to change without notice.

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Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

SPECIFICATIONS

Part No.			MRW-130	
Output voltage, current*1		V_1	+5V • 1.5A	
		V_2	+12V • 1.5A[Peak 1.7A, 10s max.]*4	
Maximum output power		W	25.5	
Input requirements				
Input voltage Eac		V	90 to 264	
Input frequency		Hz	47 to 66[Single phase]	
Input current		A	0.8max./0.5max.[100-120/200-240V]	
Fuse rating		A	2[Internal]	
Surge current		A	50max./100max.[100-120/200-240V, 25°C, cold start]	
Leakage current		mA	0.5max./0.75max.[100-120/200-240V]	
Efficiency		%	73typ.[100-120V]	
Output characteristics				
Output voltage		V	+5[V_1]	+12[V_2]
Voltage variable range		%	+5, –3	V_2 varies simultaneously and in the same direction as V_1
Maximum output current*1		A	1.5	1.5[Peak 1.7A, 10s]*4
Minimum output current*3		A	0.5	0.3
Output setting conditions	Voltage	V	5±0.02	—
	Current	A	1.5	1.5
Voltage stability	Input variation	%	1max.	1.5max.[90 to 132V/180 to 264V]
	Load variation*2	%	2max.	6max.
	Temperature variation [0 to +50°C]	%	3max.	4max.
	Total variation	%	+4, –3max.	±7max.
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]	
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]	
Ripple Ep-p		mV	80max.	120max.
Ripple noise Ep-p		mV	150max.	290max.
Start up time		ms	700typ.	
Hold up time		ms	15typ./10min.[100V input], 25typ./20min.[120V input]	
Accessory equipment				
Operation indicator			None	
Overvoltage protection			Only 5V built-in protection, voltage shielding type(overvoltage threshold 5.8 to 6.9V), recovers upon reset.	
Overcurrent protection			28W min. total power type	
Remote ON-OFF			None	
Remote sensing			None	
Current balance			None	
Output voltage external variable function			None	
Standards				
Safety standards			UL1950, CSA C22.2 No.234, EN60950 (TÜV) approved.	
Noise terminal voltage			FCC class B, VDE0871 class B compliant.	
Construction				
External dimensions H×W×L		mm	35×80×100	
Weight		g	220max.	
Mounting method			Can be attached to 1 side.	
Case and cover			None	
Input and output cables			Sold separately(Part No.:4EU30B217)	

*1 Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.
*2 Load variation was determined only for the measured output. The non-measured output was kept fixed(1.5A for V_1, 1.5A for V_2).
*3 Normal output voltages might possibly not be maintained if outputs V_1, V_2 fall below these minimum current values.
*4 Load current should exceed 1.5A at +12V for time intervals no longer than 10s. The effective current should be kept below 1.5A.

Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

SPECIFICATIONS

Part No.			MRW-135	
Output voltage, current*1		V_1	+5V • 2A	
		V_2	+12V • 1.5A[Peak 2.5A, 3s max.]*4	
Maximum output power		W	28	
Input requirements				
Input voltage Eac		V	90 to 264	
Input frequency		Hz	47 to 66[Single phase]	
Input current		A	0.8max./0.5max.[100-120/200-240V]	
Fuse rating		A	2[Internal]	
Surge current		A	50max./100max.[100-120/200-240V, 25°C, cold start]	
Leakage current		mA	0.5max./0.75max.[100-120/200-240V]	
Efficiency		%	73typ.[100-120V]	
Output characteristics				
Output voltage		V	+5[V_1]	+12[V_2]
Voltage variable range		%	+5, –3	V_2 varies simultaneously and in the same direction as V_1.
Maximum output current*1		A	2	1.5[Peak 2.5A, 3s]*4
Minimum output current*3		A	0.5	0.3
Output setting conditions	Voltage	V	5±0.02	—
	Current	A	2	1.5
Voltage stability	Input variation	%	1max.	1.5max.[90 to 132V/180 to 264V]
	Load variation*2	%	2max.	3max.
	Temperature variation [0 to +50°C]	%	2max.	3max.
	Total variation	%	+4, –3max.	±5max.
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]	
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]	
Ripple Ep-p		mV	80max.	120max.
Ripple noise Ep-p		mV	150max.	290max.
Start up time		ms	750typ.	
Hold up time		ms	15typ./10min.[100V input], 25typ./20min.[120V input]	
Accessory equipment				
Operation indicator			None	
Overvoltage protection			Only 5V built-in protection, voltage shielding type(overvoltage threshold 5.8 to 6.9V), recovers upon reset.	
Overcurrent protection			41W min. total power type	
Remote ON-OFF			None	
Remote sensing			None	
Current balance			None	
Output voltage external variable function			None	
Standards				
Safety standards			UL1950, CSA ELECTRICAL BULLETIN No.1402C, EN60950 (TÜV) approved.	
Noise terminal voltage			FCC class B, VDE0871 class B compliant.	
Construction				
External dimensions H×W×L		mm	35×80×120	
Weight		g	300max.	
Mounting method			Can be attached to 1 side.	
Case and cover			—	
Input and output cables			Sold separately(Part No.:4EU20B241)	

*1 Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.
*2 Load variation was determined only for the measured output. The non-measured output was kept fixed(1.5A for V_1, 1.5A for V_2).
*3 Normal output voltages might possibly not be maintained if outputs V_1, V_2 fall below these minimum current values.
*4 Load current should exceed 1.5A at +12V for time intervals no longer than 10s. The effective current should be kept below 1.5A.

Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

SPECIFICATIONS

Part No.			MRW-140	
Output voltage, current*1		V_1	+5V • 1A	
		V_2	+12V • 1.7A	
Maximum output power		W	25.4	
Input requirements				
Input voltage Eac		V	90 to 264	
Input frequency		Hz	47 to 66[Single phase]	
Input current		A	0.7max./0.45max.[100-120/200-240V]	
Fuse rating		A	2[Internal]	
Surge current		A	50max./100max.[100-120/200-240V, 25°C, cold start]	
Leakage current		mA	0.5max./0.75max.[100-120/200-240V]	
Efficiency		%	73typ.	
Output characteristics				
Output voltage		V	+5[V_1]	+12[V_2]
Voltage variable range		%	+5, –3	V_2 varies simultaneously and in the same direction as V_1.
Maximum output current*1		A	1	1.7
Minimum output current*3		A	0.2	0.3
Output setting conditions	Voltage	V	5.1±0.03	—
	Current	A	1	1.7
Voltage stability	Input variation	%	1max.	1.5max.[90 to 132V/180 to 264V]
	Load variation*2	%	1.5max.	6max.
	Temperature variation [0 to +50°C]	%	2max.	2max.
	Total variation	%	+5, –1max.	±5max.
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]	
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]	
Ripple Ep-p		mV	80max.	120max.
Ripple noise Ep-p		mV	150max.	290max.
Start up time		ms	500typ.	
Hold up time		ms	15typ./10min.[100V input], 25typ./20min.[120V input]	
Accessory equipment				
Operation indicator			None	
Overvoltage protection			Only 5V built-in protection, voltage shielding type(overvoltage threshold 5.8 to 6.9V), recovers upon reset.	
Overcurrent protection			26W min. total power type	
Remote ON-OFF			None	
Remote sensing			None	
Current balance			None	
Output voltage external variable function			None	
Standards				
Safety standards			—	
Noise terminal voltage			FCC class B, VDE0871 class B compliant.	
Construction				
External dimensions H×W×L		mm	27×100×160	
Weight		g	300max.	
Mounting method			Can be attached to 1 side.	
Case and cover			—	
Input and output cables			Sold separately(Part No.: 4EU40B153)	

*1 Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.

*2 Load variation was determined only for the measured output. The non-measured output was kept fixed(1.5A for V_1, 1.5A for V_2).

*3 Normal output voltages might possibly not be maintained if outputs V_1, V_2 fall below these minimum current values.

Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

SPECIFICATIONS

Part No.			MRW-150			MRW-151		
Output voltage, current *1		V_1	+5V • 2.2A(4A)*4			+5V • 2.2A(4A)*4		
		V_2	+12V • 1.8A(2.5A)*4			+15V • 1.4A(2A)*4		
		V_3	–12V • 0.1A(0.3A)*4			–15V • 0.1A(0.25A)*4		
Maximum output power		W	35			35		
Input requirements								
Input voltage Eac		V	90 to 264					
Input frequency		Hz	47 to 66[Single phase]					
Input current		A	1max./0.5max.[100/200V, at maximum output power]					
Fuse rating		A	2.5[Internal]					
Surge current		A	50max./100max.[100/200V, 25°C, cold start]					
Leakage current		mA	0.5max./0.75max.[100/200V, 25°C, output rating]					
Efficiency		%	70typ.			70typ.		
Output characteristics								
Output voltage		V	+5[V_1]	+12[V_2]	–12[V_3]	+5[V_1]	+15[V_2]	–15[V_3]
Voltage variable range		%	+5, –3	V_2 varies simultaneously and in the same direction as V_1.		+5, –3	V_2 varies simultaneously and in the same direction as V_1.	
Maximum output current*1		A	4	2.5	0.3	4	2	0.25
Rated output current		A	2.2	1.8	0.1	2.2	1.4	0.1
Minimum output current*2		A	1	0.6	0	1	0.5	0
Output setting conditions	Voltage	V	5±0.02	—	—	5±0.02	—	—
	Current	A	2.2	1.8	0.1	2.2	1.4	0.1
Overvoltage threshold		V	5.8 to 6.9			5.8 to 6.9		
Voltage stability	Input variation	%	1typ.	1typ.	1typ.	1typ.	1typ.	1typ.
	Load variation*3	%	3typ.	5typ.	1typ.	3typ.	5typ.	1typ.
	Temperature variation [0 to +50°C]	%	2typ.	2typ.	1typ.	2typ.	2typ.	2typ.
	Total variation	%	+4, –2max.	±5max.	±6max.	+4, –2max.	+3, –8max.	±6max.
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./2max.[50 to 100% sudden load change]					
Ripple Ep-p		mV	50max.	80max.	30max.	80max.	120max.	30max.
Ripple noise Ep-p		mV	150max.	290max.	290max.	150max.	350max.	350max.
Start up time		ms	600max.[25°C, input and output ratings]			530max.[25°C, input and output ratings]		
Rise time		ms	20max.[25°C, input and output ratings]			10max.[25°C, input and output ratings]		
Hold up time		ms	15min.[25°C, input and output ratings]			15min.[25°C, input and output ratings]		
Accessory equipment								
Operation indicator			None					
Overvoltage protection			Only 5V built-in protection, voltage shielding type, recovers upon reset (interval approx. 45s).					
Overcurrent protection			36W min. total power type					
Remote ON-OFF			None					
Remote sensing			None					
Standards								
Safety standards			UL1950, CSA C22.2 No.234(MRW-151: CSA EB No.1402C), EN60950 (TÜV) approved.					
Noise terminal voltage			FCC class B, VDE0871 class B compliant.					
Construction								
External dimensions H×W×L		mm	30×100×160					
Weight		g	350max.					
Mounting method			1 side(Open frame)					
Case and cover			Frame/cover sold separately(Part No.: 2JF00B157/2JC0ZB156)					
Input and output cables			Sold separately(Part No.:4EU40B153)					

*1 Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.

*2 Normal output voltages might possibly not be maintained if outputs V_2, V_3 fall below V_1 minimum current values.

*3 Load range

V_1:1 to 2.2A, V_2:0.6 to 1.8A, V_3:0 to 0.1A

*4 At the maximum output current value within the parentheses, the sum of all output(V_1,V_2 and V_3) power values can not exceed this maximum output power.

⚠ Specifications which provide more details for the proper and safe use of the described product are available upon request.
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Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

SPECIFICATIONS

Part No.			MRW-160			MRW-161		
Output voltage, current*1		V_1	+5V • 5A(6A)*4			+5V • 5A(6A)*4		
		V_2	+12V • 2A(2.5A)*4			+15V • 1.5A(2A)*4		
		V_3	–12V • 0.1A(0.5A)*4			–15V • 0.1A(0.4A)*4		
Maximum output power		W	50			50		
Input requirements								
Input voltage Eac		V	90 to 264					
Input frequency		Hz	47 to 66[Single phase]					
Input current		A	1.3max./0.8max.[100-120/200-240V]					
Fuse rating		A	3[Internal]					
Surge current		A	50max./100max.[100-120/200-240V, 25°C, cold start]					
Leakage current		mA	0.5max./0.75max.[100-120/200-240V]					
Efficiency		%	75typ.			73typ.		
Output characteristics								
Output voltage		V	+5[V_1]	+12[V_2]	–12[V_3]	+5[V_1]	+15[V_2]	–15[V_3]
Voltage variable range		%	+5, –3	V_2 varies simultaneously and in the same direction as V_1.		+5, –3	V_2 varies simultaneously and in the same direction as V_1.	
Maximum output current*1		A	6	2.5	0.5	6	2	0.4
Rated output current		A	5	2	0.1	5	1.5	0.1
Minimum output current *2		A	1	0.6	0	1	0.5	0
Output setting conditions	Voltage	V	5±0.02	—	—	5±0.02	—	—
	Current	A	2.5	2	0.1	2.5	1.5	0.1
Voltage stability	Input variation	%	2max.	2max.	1max.	2max.	2max.	1max.
	Load variation*3	%	4max.	2max.	1max.	4max.	2max.	1max.
	Temperature variation [0 to +50°C]	%	2max.	2max.	1max.	2max.	2max.	1max.
	Total variation	%	±4max.	+6, –4max.	±6max.	±4max.	+8, –2max.	±6max.
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./1max.[50 to 100% sudden load change]					
Ripple Ep-p		mV	80max.	80max.	30max.	80max.	80max.	30max.
Ripple noise Ep-p		mV	150max.	290max.	290max.	150max.	350max.	350max.
Start up time		ms	500typ.					
Hold up time		ms	30typ./20min.					
Accessory equipment								
Operation indicator			None					
Overvoltage protection			Only 5V built-in protection, voltage shielding type(overvoltage threshold 5.8 to 6.9V), recovers upon reset.					
Overcurrent protection			60W min. total power type					
Remote ON-OFF			None					
Remote sensing			None					
Current balance			None					
Output voltage external variable function			None					
Standards								
Safety standards			UL1950, CSA ELECTRICAL BULLETIN No.1402C, EN 60950 (TÜV) approved.					
Noise terminal voltage			FCC class B, VDE0871 class B compliant.					
Construction								
External dimensions H×W×L		mm	38×100×160					
Weight		g	500max.					
Mounting method			Can be attached to 1 side.					
Case and cover			Frame/cover sold separately (Part No.: 2JF00B167/2JC0ZB166)					
Input and output cables			Sold separately(Part No.: 4EU40B153)					

*1 Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.

*2 Normal output voltages might possibly not be maintained if outputs V_2, V_3 fall below V_1 minimum current values.

*3 Load variation will be specified from the minimum output current to the rated output current range.

*4 At the maximum output current value within the parentheses, the sum of all output(V_1,V_2 and V_3) power values can not exceed this maximum output power.

Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

SPECIFICATIONS

Part No.			MRW-170			MRW-171		
Output voltage, current*1		V_1	+5V • 5A(7A)*4			+5V • 5A(7A)*4		
		V_2	+12V • 1.7A(2.5A)*4			+15.8V • 1.3A(2A)*4		
		V_3	–12V • 1.7A(2.5A)*4			–15.8V • 1.3A(2A)*4		
Maximum output power		W	65			65		
Input requirements								
Input voltage Eac		V	85 to 264					
Input frequency		Hz	47 to 66[Single phase]					
Input current		A	1.7max./0.9max.[100/200V]					
Fuse rating		A	3.15[Internal]					
Surge current		A	50max./100max.[115/230V, 25°C, cold start]					
Leakage current		mA	0.5max./0.75max.[115/230V, 25°C, output rating]					
Efficiency		%	70typ.			70typ.		
Output characteristics								
Output voltage		V	+5[V_1]	+12[V_2]	–12[V_3]	+5[V_1]	+15.8[V_2]	–15.8[V_3]
Voltage variable range		V	—					
Maximum output current*1		A	7	2.5	2.5	7	2	2
Rated output current		A	5	1.7	1.7	5	1.3	1.3
Minimum output current*2		A	0.8	0.3	0.3	0.8	0.3	0.3
Output setting conditions	Voltage	V	5±0.02	—	—	5±0.02	—	—
	Current	A	5	1.7	1.7	5	1.3	1.3
Overvoltage threshold		V	5.8 to 6.9			5.8 to 6.9		
Voltage stability	Input variation	%	1typ.	1typ.	1typ.	1typ.	1typ.	1typ.
	Load variation*3	%	3.5typ.	5typ.	5typ.	3.5typ.	5typ.	5typ.
	Temperature variation [0 to +50°C]	%	2typ.	3.5typ.	3.5typ.	2typ.	3.5typ.	3.5typ.
	Total variation	%	±4max.	+8, –7max.	+8, –7max.	±4max.	+8, –7max.	+8, –7max.
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]					
	Dynamic load	%/ms	±4max./0.5max.[50 to 100% sudden load change]					
Ripple Ep-p	Source	mV	30max.	30max.	30max.	30max.	30max.	30max.
	Switching	mV	50max.	50max.	50max.	50max.	50max.	50max.
Ripple noise Ep-p		mV	150max.	250max.	250max.	150max.	250max.	250max.
Start up time		ms	600typ.[115V]					
Hold up time		ms	20typ./15min.[115V]					
Accessory equipment								
Operation indicator			None					
Overvoltage protection			Only 5V built-in protection, voltage shielding type, recovers upon reset.					
Overcurrent protection			66W min. total power type					
Remote ON-OFF			None					
Remote sensing			None					
Standards								
Safety standards			UL1950, CSA C22.2 No.234, EN60950 (TÜV) approved.					
Noise terminal voltage			FCC class B, VDE0871 class B compliant.					
Construction								
External dimensions H×W×L		mm	38×100×160					
Weight		g	450max.					
Mounting method			1 side(Open frame)					
Case and cover			—					
Input and output cables			—					

*1 Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.

*2 Normal output voltages might possibly not be maintained if outputs V_2, V_3 fall below V_1 minimum current values.

*3 Load variation will be specified from the minimum output current to the rated output current range.

*4 At the maximum output current value within the parentheses, the sum of all output(V_1, V_2 and V_3) power values can not exceed this maximum output power.

Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

SPECIFICATIONS

Part No.			MRW-350			MRW-351			MRW-352		
Output voltage, current *1		V_1	+5V • 3A			+5V • 3A			+3.3V • 4A		
		V_2	+12V • 2A			+15.6V • 1.6A			+12V • 2A		
		V_3	–12V • 0.1A			–15V • 0.1A			–12V • 0.1A		
Maximum output power		W	40			40			40		
Input requirements											
Input voltage Eac		V	90 to 264								
Input frequency		Hz	47 to 66[Single phase]								
Input current		A	0.9max./0.55max.[100/240V]								
Fuse rating		A	2[Internal]								
Surge current		A	50max./100max.[115/230V, 25°C, cold start]								
Leakage current		mA	0.5max./0.75max.[115/230V, 25°C, output rating]								
Efficiency		%	70typ.								
Output characteristics											
Output voltage		V	+5[V_1]	+12[V_2]	–12[V_3]	+5[V_1]	+15.6[V_2]	–15[V_3]	+3.3[V_1]	+12[V_2]	–12[V_3]
Voltage variable range		V	—			—					
Maximum output current *1		A	3	2	0.1	3	1.6	0.1	4	2	0.1
Minimum output current*2		A	0.5	0.3	0	0.5	0.3	0	0.5	0.3	0
Output setting conditions	Voltage	V	5±0.02	—	—	5±0.02	—	—	3.3±0.02	—	—
	Current	A	3	2	0	3	1.6	0	4	2	0
Overvoltage threshold		V	5.8 to 6.9			5.8 to 6.9			5.8 to 6.9		
Voltage stability	Input variation	%	1typ.	1typ.	1typ.	1typ.	1typ.	1typ.	1typ.	1typ.	1typ.
	Load variation*3	%	2typ.	4typ.	1typ.	2typ.	4typ.	1typ.	2typ.	4typ.	1typ.
	Temperature variation [0 to +50°C]	%	2typ.	3.5typ.	1typ.	2typ.	3.5typ.	1typ.	2typ.	3.5typ.	1typ.
	Total variation	%	±3.5max.	±7max.	±7max.	±3.5max.	±7max.	±7max.	±4max.	+10, –5max.	±7max.
	Drift	%	0.5max.[25°C, input and output ratings, after input voltage ON for 30min to 8h]								
	Dynamic load	%/ms	±4max./0.5typ.[50 to 100% sudden load change]								
Ripple Ep-p	Source	mV	30max.	100max.	10max.	30max.	120max.	10max.	30max.	100max.	10max.
	Switching	mV	25max.	20max.	20max.	25max.	20max.	20max.	25max.	20max.	20max.
Ripple noise Ep-p		mV	150max.	250max.	250max.	150max.	250max.	250max.	200max.	250max.	250max.
Start up time		ms	500typ.[120V]								
Hold up time		ms	20typ./15min.[120V]								
Accessory equipment											
Operation indicator			None								
Overvoltage protection			Only 5V built-in protection, voltage shielding type, recovers upon reset.								
Overcurrent protection			41W min. total power type								
Remote ON-OFF			None								
Remote sensing			None								
Standards											
Safety standards			UL1950, CSA C22.2 No.234, EN60950 (TÜV) approved.								
Noise terminal voltage			FCC class B, VDE0871 class B compliant.								
Construction											
External dimensions H×W×L		mm	36.75×76×127								
Weight		g	240max.								
Mounting method			1 side(Open frame)								
Case and cover			—								
Input and output cables			—								

*1 Current rating(maximum output current) is determined for 0 to +50°C. Derating is required when used outside this temperature range.

*2 Normal output voltages might possibly not be maintained if outputs V_2, V_3 fall below V_1 minimum current values.

*3 Load variation will be specified from the minimum output current to the rated output current range.

Power Supplies

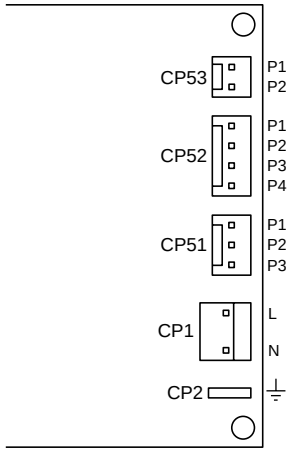
AC Input

Multi Output, General-Purpose

MRW Series

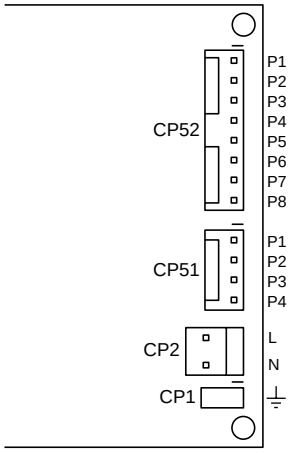
TERMINAL DESIGNATIONS AND FUNCTIONS

MRW-130



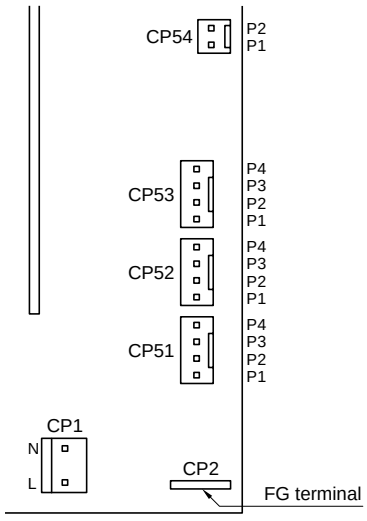
CP1	2	Input(L)
	1	Input(N)
CP2	1	FG
CP51	P1	Å¦
	P2	COMMON
	P3	V_2
CP52	P1	COMMON
	P2	V_2
	P3	COMMON
	P4	V_1
CP53	P1	COMMON
	P2	V_1

MRW-135



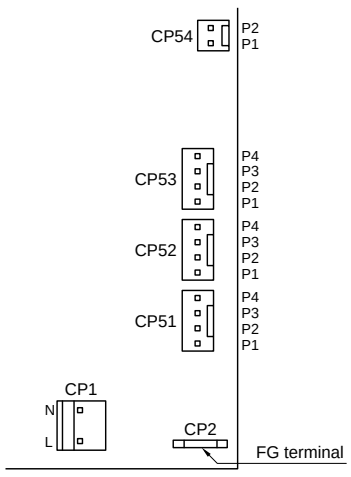
CP1	1	FG
CP2	2	Input(L)
	1	Input(N)
CP51	P1	V_2
	P2	COMMON
	P3	V_1
	P4	COMMON
CP52	P1	COMMON
	P2	COMMON
	P3	V_1
	P4	V_1
	P5	COMMON
	P6	COMMON
	P7	V_2
	P8	V_2

MRW-140



CP1	2	Input(L)
	1	Input(N)
CP2	1	FG
CP51	P1	V_1
	P2	COMMON
	P3	V_2
	P4	Å¦
CP52	P1	V_1
	P2	COMMON
	P3	V_2
	P4	Å¦
CP53	P1	V_1
	P2	COMMON
	P3	V_2
	P4	—
CP54	P1	COMMON
	P2	POWER OK SIG-NAL

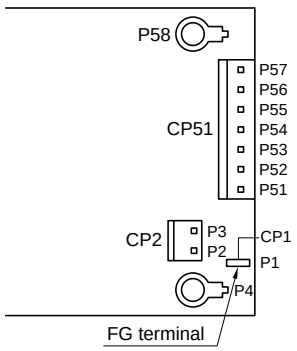
MRW-150, 151, 160, 161



CP1	1	Input(L)
	2	Input(N)
CP2	1	FG
CP51	P1	V_1
	P2	COMMON
	P3	V_2
	P4	V_3
CP52	P1	V_1
	P2	COMMON
	P3	V_2
	P4	V_3
CP53	P1	V_1
	P2	COMMON
	P3	V_2
	P4	V_3
CP54	P1	COMMON
	P2	POWER OK SIG-NAL

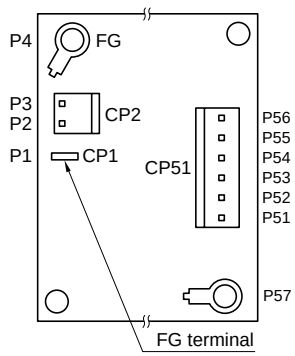
TERMINAL DESIGNATIONS AND FUNCTIONS

MRW-170, 171



CP1	P1	FG(Primary)
CP2	P2	Input(L)
	P1	Input(N)
CP51	P57	V_2
	P56	V_1
	P55	V_1
	P54	COMMON
	P53	COMMON
	P52	COMMON
	P51	V_3
P4		FG(Primary)
P58		FG(Secondary)

MRW-350, 351, 352



CP1	P1	FG(Primary)
CP2	P2	Input(L)
	P3	Input(N)
CP51	P56	V_2
	P55	V_1
	P54	V_1
	P53	COMMON
	P52	COMMON
	P51	V_3
P4		FG(Primary)
P57		FG(Secondary)

- AC input terminals(L, N)
  Connect to AC.100/120V or 200/240V single phase power supply.
- Frame ground terminal(G)
  Connect to earth ground. This is connected to the case.
- DC output terminals(V_1, V_2, V_3)
  Wire to loads.
- DC output common terminal(COMMON)
  Wire to loads.
- Power OK signal output terminal(POWER OK SIGNAL)
  Signal is output when +5V output voltage exceeds 4.5V(applies to MRW-140, MRW-150, MRW-151, MRW-160 and MRW-161).

⚠ Specifications which provide more details for the proper and safe use of the described product are available upon request.
All specifications are subject to change without notice.

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