

Power Supplies

MRW Series

AC Input

Multi Output, General-Purpose

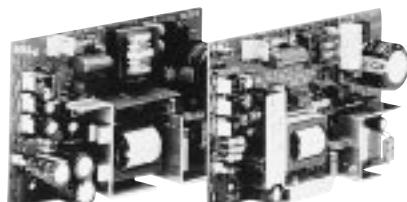
FEATURES

- 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.



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Part No.	MRW-130		
Output voltage, current*1	V1 V2	+5V • 1.5A +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[V1] +12[V2]	
Voltage variable range	%	+5, -3	V2 varies simultaneously and in the same direction as V1
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 Current	5±0.02 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 V1, 1.5A for V2).

*3 Normal output voltages might possibly not be maintained if outputs V1, V2 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.

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Part No.	MRW-135		
Output voltage, current*1	V1 V2	+5V • 2A +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[V1] +12[V2]	
Voltage variable range	%	+5, -3	V2 varies simultaneously and in the same direction as V1.
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 Current	5±0.02 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 V1, 1.5A for V2).

*3 Normal output voltages might possibly not be maintained if outputs V1, V2 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.

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Part No.	MRW-140		
Output voltage, current*1	V1 V2	+5V • 1A +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[V1] +12[V2]	
Voltage variable range	%	+5, -3	V2 varies simultaneously and in the same direction as V1.
Maximum output current*1	A	1	1.7
Minimum output current*3	A	0.2	0.3
Output setting conditions	Voltage Current	5.1±0.03 A	— 1.7
Voltage stability	Input variation	%	1max. 1.5max.
	Load variation*2	%	6max.
	Temperature variation [0 to +50°C]	%	2max. — ±5max.
	Total variation	%	+5, -1max.
	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 V1, 1.5A for V2).

*3 Normal output voltages might possibly not be maintained if outputs V1, V2 fall below these minimum current values.

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SPECIFICATIONS

Part No.	MRW-150			MRW-151			
Output voltage, current *1	V1	+5V • 2.2A(4A)*4		+5V • 2.2A(4A)*4			
	V2	+12V • 1.8A(2.5A)*4		+15V • 1.4A(2A)*4			
	V3	-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[V1]	+12[V2]	-12[V3]	+5[V1]	+15[V2] -15[V3]	
Voltage variable range	%	+5, -3	V2 varies simultaneously and in the same direction as V1.		+5, -3	V2 varies simultaneously and in the same direction as V1.	
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 Current	5±0.02 A	— 2.2	— 1.8	5±0.02 0.1	— 2.2 1.4 0.1	
Ovovoltage threshold	V	5.8 to 6.9			5.8 to 6.9		
Voltage stability	Input variation	%	1typ.	1typ.	1typ.	1typ.	
	Load variation*3	%	3typ.	5typ.	1typ.	3typ. 5typ.	
	Temperature variation [0 to +50°C]	%	2typ.	2typ.	1typ.	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 V2, V3 fall below V1 minimum current values.

*3 Load range

V1:1 to 2.2A, V2:0.6 to 1.8A, V3:0 to 0.1A

*4 At the maximum output current value within the parentheses, the sum of all output(V1,V2 and V3) power values can not exceed this maximum output power.

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SPECIFICATIONS

Part No.	MRW-160			MRW-161		
Output voltage, current*1	V1	+5V • 5A(6A)*4		+5V • 5A(6A)*4		
	V2	+12V • 2A(2.5A)*4		+15V • 1.5A(2A)*4		
	V3	-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[V1]	+12[V2]	-12[V3]	+5[V1]	+15[V2] -15[V3]
Voltage variable range	%	+5, -3	V2 varies simultaneously and in the same direction as V1.		+5, -3	V2 varies simultaneously and in the same direction as V1.
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	5±0.02	—	—	5±0.02	—
	Current	2.5	2	0.1	2.5	1.5 0.1
Voltage stability	Input variation	%	2max.	2max.	1max.	2max. 1max.
	Load variation*3	%	4max.	2max.	1max.	4max. 2max. 1max.
	Temperature variation [0 to +50°C]	%	2max.	2max.	1max.	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. 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			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 V2, V3 fall below V1 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(V1,V2 and V3) power values can not exceed this maximum output power.

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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]
Voltage variable range	V	—				-15.8[V ₃]
Maximum output current* ¹	A	7	2.5	2.5	7	2
Rated output current	A	5	1.7	1.7	5	1.3
Minimum output current* ²	A	0.8	0.3	0.3	0.8	0.3
Output setting conditions	Voltage	5±0.02	—	—	5±0.02	—
Current	A	5	1.7	1.7	5	1.3
Oversupply threshold	V	5.8 to 6.9			5.8 to 6.9	
Voltage stability	Input variation	%	1typ.	1typ.	1typ.	1typ.
	Load variation* ³	%	3.5typ.	5typ.	3.5typ.	5typ.
	Temperature variation [0 to +50°C]	%	2typ.	3.5typ.	3.5typ.	3.5typ.
	Total variation	%	±4max.	+8, -7max.	+8, -7max.	±4max.
	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.
	Switching	mV	50max.	50max.	50max.	50max.
Ripple noise Ep-p	mV	150max.	250max.	250max.	150max.	250max.
Start up time	ms	600typ.[115V]				
Hold up time	ms	20typ./15min.[115V]				
Accessory equipment						
Operation indicator		None				
Oversupply 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 (TUV) 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 V₂, V₃ fall below V₁ 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(V₁, V₂ and V₃) power values can not exceed this maximum output power.

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Part No.	MRW-350			MRW-351			MRW-352			
Output voltage, current *1	V1	+5V • 3A		+5V • 3A		+3.3V • 4A				
	V2	+12V • 2A		+15.6V • 1.6A		+12V • 2A				
	V3	-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[V1]	+12[V2]	-12[V3]	+5[V1]	+15.6[V2]	-15[V3]	+3.3[V1]	+12[V2]	-12[V3]
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	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.
	Load variation*3	%	2typ.	4typ.	1typ.	2typ.	4typ.	1typ.	2typ.	4typ.
	Temperature variation [0 to +50°C]	%	2typ.	3.5typ.	1typ.	2typ.	3.5typ.	1typ.	2typ.	3.5typ.
Ripple Ep-p	Total variation	%	±3.5max.	±7max.	±7max.	±3.5max.	±7max.	±7max.	±4max.	+10, -5max.
	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 noise Ep-p	Source	mV	30max.	100max.	10max.	30max.	120max.	10max.	30max.	100max.
	Switching	mV	25max.	20max.	20max.	25max.	20max.	20max.	25max.	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 (TUV) 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 V2, V3 fall below V1 minimum current values.

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

Power Supplies

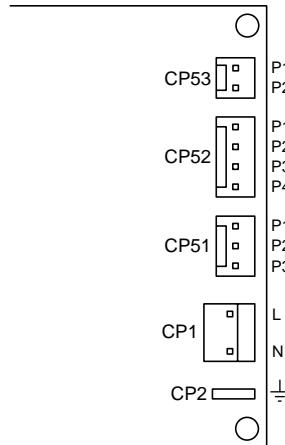
AC Input

Multi Output, General-Purpose

MRW Series

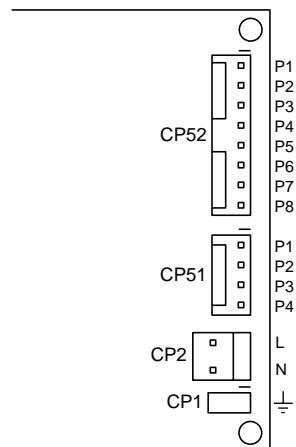
TERMINAL DESIGNATIONS AND FUNCTIONS

MRW-130



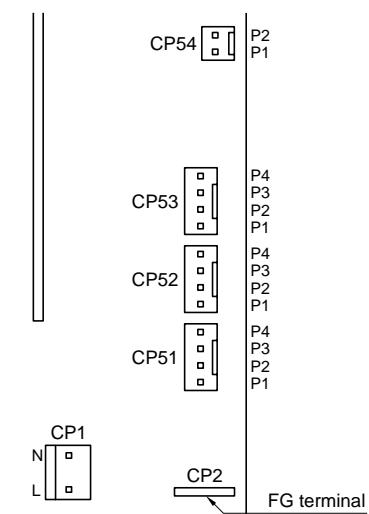
CP1	2	Input(L)
	1	Input(N)
CP2	1	FG
	P1	Å
CP51	P2	COMMON
	P3	V2
	P4	
CP51	P1	COMMON
	P2	V2
	P3	COMMON
	P4	V1
CP52	P1	COMMON
	P2	V1
	P3	COMMON
	P4	V1
CP53	P1	COMMON
	P2	V1

MRW-135



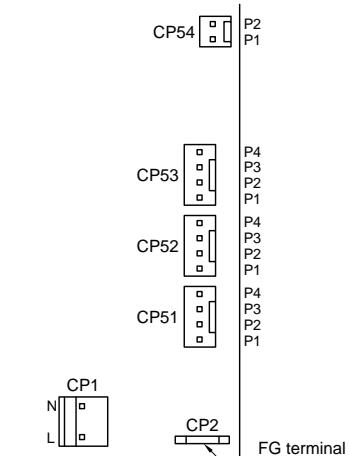
CP1	1	FG
CP2	2	Input(L)
	1	Input(N)
	P1	V2
CP51	P2	COMMON
	P3	V1
	P4	COMMON
	P6	COMMON
	P7	V1
CP52	P1	COMMON
	P2	V1
	P3	V1
	P4	V1
	P5	COMMON
	P6	COMMON
	P7	V2
	P8	V2

MRW-140



CP1	2	Input(L)
	1	Input(N)
CP2	1	FG
	P1	V1
CP51	P2	COMMON
	P3	V2
	P4	Å
	P1	V1
CP52	P2	COMMON
	P3	V2
	P4	Å
	P1	V1
CP53	P2	COMMON
	P3	V2
	P4	—
	P1	COMMON
CP54	P2	POWER OK SIGNAL

MRW-150, 151, 160, 161



CP1	1	Input(L)
	2	Input(N)
CP2	1	FG
	P1	V1
CP51	P2	COMMON
	P3	V2
	P4	V3
	P1	V1
CP52	P2	COMMON
	P3	V2
	P4	V3
	P1	V1
CP53	P2	COMMON
	P3	V2
	P4	V3
	P1	COMMON
CP54	P2	POWER OK SIGNAL

Power Supplies

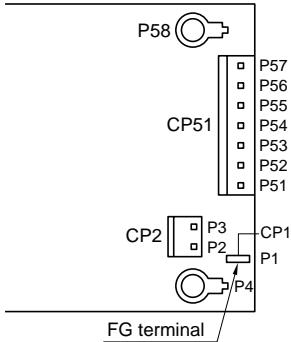
MRW Series

AC Input

Multi Output, General-Purpose

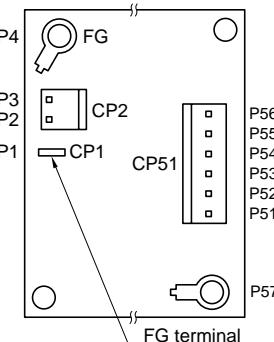
TERMINAL DESIGNATIONS AND FUNCTIONS

MRW-170, 171



CP1	P1	FG(Primary)
CP2	P2	Input(L)
	P1	Input(N)
CP51	P57	V2
	P56	V1
	P55	V1
	P54	COMMON
	P53	COMMON
	P52	COMMON
	P51	V3
	P4	FG(Primary)
	P58	FG(Secondary)

MRW-350, 351, 352



CP1	P1	FG(Primary)
CP2	P2	Input(L)
	P3	Input(N)
CP51	P56	V2
	P55	V1
	P54	V1
	P53	COMMON
	P52	COMMON
	P51	V3
	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(V₁, V₂, V₃)

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).

A151_MRW
980403

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.

TDK