

Power Supplies

RM-GB Series

AC Input

Single Output, Long Life

FEATURES

- Remote ON-OFF.
- Remote sensing.
- Parallel connection is possible.
- These low noise power supplies are CISPR standard compliant.

PART NUMBERS AND RATINGS

Output voltage(V)	30W type		50W type		75W type	
	Current(A)	Part No.	Current(A)	Part No.	Current(A)	Part No.
5	6	RM05-6R0GB	10	RM05-10R0GB	15	RM05-15R0GB
9	3.3	RM09-3R3GB	6	RM09-6R0GB	8	RM09-8R0GB
12	2.5	RM12-2R5GB	5	RM12-5R0GB	6.3	RM12-6R3GB
15	2	RM15-2R0GB	4	RM15-4R0GB	5	RM15-5R0GB
24	1.3	RM24-1R3GB	2.5	RM24-2R5GB	3.2	RM24-3R2GB
48			1.3	RM48-1R3GB	1.6	RM48-1R6GB

Output voltage(V)	100W type		150W type		300W type	
	Current(A)	Part No.	Current(A)	Part No.	Current(A)	Part No.
5	20	RM05-20R0GB	30	RM05-30R0GB	60	RM05-60R0GB
9	11	RM09-11R0GB	16	RM09-16R0GB	32	RM09-32R0GB
12	8.5	RM12-8R5GB	12	RM12-12R0GB	27	RM12-27R0GB
15	7	RM15-7R0GB	10	RM15-10R0GB	23	RM15-23R0GB
24	4.5	RM24-4R5GB	6	RM24-6R0GB	16	RM24-16R0GB
48	2.2	RM48-2R2GB	3	RM48-3R0GB	6	RM48-6R0GB



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SPECIFICATIONS

30W TYPE

Part No.		RM05-6R0GB	RM09-3R3GB	RM12-2R5GB	RM15-2R0GB	RM24-1R3GB
Output voltage, current*		5V • 6A	9V • 3.3A	12V • 2.5A	15V • 2A	24V • 1.3A
Maximum output power	W	33	33	33.7	33	34.4
Input requirements						
Input voltage Eac	V	85 to 132[Rating:100-115]				
Input frequency	Hz	47 to 440[Rating:50-60](Single phase)				
Input capacitance	VA	80max.[At maximum output power]				
Fuse rating	A	3.15[Internal]				
Surge current	A	15/17max.[25°C, input and output ratings, 1st surge current, reset after roughly 5s min.]				
Leakage current	mA	0.5max.(0.3typ.)[25°C, input and output ratings]				
Efficiency	%	75typ.[25°C, input and output ratings]				
Output characteristics						
Output voltage	V	5	9	12	15	24
Voltage variable range	V	4.25 to 5.5	7.2 to 10	9.5 to 13.5	12 to 16.5	19 to 26.5
Maximum output current*	A	6	3.3	2.5	2	1.3
Overvoltage threshold	V	5.8 to 6.9	10.5 to 12.5	13.7 to 15.7	17 to 19	27 to 30.5
Overcurrent threshold	A	6.6 to 7.8	3.7 to 4.3	2.8 to 3.3	2.2 to 2.6	1.5 to 1.8
Voltage stability	Input variation	%	0.8max.(0.5typ.)[Within the input voltage range]			Total variation ±2max.(±1.3typ.)
	Load variation	%	1max.(0.5typ.)[10 to 100% load]			
	Temperature variation	%	1.2max.(0.4typ.)[0 to +50°C]			
	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	50max.	50max.	80max.	80max.	100max.
Ripple noise Ep-p	mV	Output voltage×0.5%+50max.[50MHz max.]				
Start up time	ms	100max.(50typ.)[25°C, input and output ratings]				
Hold up time	ms	20min.(35typ.)[25°C, input and output ratings]				
Accessory equipment						
Overvoltage protection		Voltage shielding type, recovers upon reset.				
Overcurrent protection		Fixed current and output voltage threshold type, automatic recovery.				
Remote ON-OFF		Yes(Floating)				
Remote sensing		Yes				
Standards						
Safety standards		UL478, CSA ELECTRICAL BULLETIN No.1402 approved.				
Noise terminal voltage		CISPR standard compliant.				
Construction						
External dimensions H×W×L	mm	130×35×146				
Weight	g	650max.				
Mounting method		Can be attached to 4 sides.				
Case material		Aluminum(Phosphoric acid anodized surface)				

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

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50W TYPE

Part No.		RM05-10RGB	RM09-6R0GB	RM12-5R0GB	RM15-4R0GB	RM24-2R5GB	RM48-1R3GB
Output voltage, current*		5V • 10A	9V • 6A	12V • 5A	15V • 4A	24V • 2.5A	48V • 1.3A
Maximum output power	W	55	60	68	66	66	69
Input requirements							
Input voltage Eac	V	85 to 132[Rating:100-115]					
Input frequency	Hz	47 to 440[Rating:50-60](Single phase)					
Input capacitance	VA	180max.[At maximum output power]					
Fuse rating	A	3.15[Internal]					
Surge current	A	15/17max.[25°C, input and output ratings, 1st surge current, reset after roughly 5s min.]					
Leakage current	mA	0.5max.(0.3typ.)[25°C, input and output ratings]					
Efficiency	%	78typ.[25°C, input and output ratings]					
Output characteristics							
Output voltage	V	5	9	12	15	24	48
Voltage variable range	V	4 to 5.5	7.2 to 10	9.5 to 13.5	12 to 16.5	19 to 26.5	38.4 to 53
Maximum output current*	A	10	6	5	4	2.5	1.3
Overvoltage threshold	V	6 to 6.5	10.5 to 11	14 to 14.5	17 to 17.5	27 to 27.5	55 to 57
Overcurrent threshold	A	11.5 to 12.5	6.9 to 7.5	5.7 to 6.3	4.6 to 5	2.8 to 3.2	1.5 to 1.7
Voltage stability	Input variation	%	0.8max.(0.5typ.)[Within the input voltage range]				
	Load variation	%	1max.(0.5typ.)[10 to 100% load]				
	Temperature variation	%	1.2max.(0.4typ.)[0 to +50°C]				
	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	50max.	50max.	80max.	80max.	100max.	100max.
Ripple noise Ep-p	mV	Output voltage×0.5%+50max.[50MHz max.]					
Start up time	ms	150max.(90typ.)[25°C, input and output ratings]					
Hold up time	ms	20min.(35typ.)[25°C, input and output ratings]					
Accessory equipment							
Overvoltage protection		Voltage shielding type, recovers upon reset.					
Overcurrent protection		Fixed current and output voltage threshold type, automatic recovery.					
Remote ON-OFF		Yes(Floating)					
Remote sensing		Yes					
Standards							
Safety standards		UL478, CSA ELECTRICAL BULLETIN No.1402 approved.					
Noise terminal voltage		CISPR standard compliant.					
Construction							
External dimensions H×W×L	mm	130×55×191					
Weight	kg	1.1max.					
Mounting method		Can be attached to 4 sides.					
Case material		Aluminum(Phosphoric acid anodized surface)					

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

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75W TYPE

Part No.		RM05-15RGB	RM09-8R0GB	RM12-6R3GB	RM15-5R0GB	RM24-3R2GB	RM48-1R6GB
Output voltage, current*		5V • 15A	9V • 8A	12V • 6.3A	15V • 5A	24V • 3.2A	48V • 1.6A
Maximum output power	W	82.5	80	85	82.5	85	85
Input requirements							
Input voltage Eac	V	85 to 132[Rating:100-115]					
Input frequency	Hz	47 to 440[Rating:50-60](Single phase)					
Input capacitance	VA	220max.[At maximum output power]					
Fuse rating	A	4[Internal]					
Surge current	A	15/17max.[25°C, input and output ratings, 1st surge current, reset after roughly 5s min.]					
Leakage current	mA	0.5max.(0.3typ.)[25°C, input and output ratings]					
Efficiency	%	78typ.[25°C, input and output ratings]					
Output characteristics							
Output voltage	V	5	9	12	15	24	48
Voltage variable range	V	4 to 5.5	7.2 to 10	9.5 to 13.5	12 to 16.5	19 to 26.5	38.4 to 53
Maximum output current*	A	15	8	6.3	5	3.2	1.6
Overvoltage threshold	V	6 to 6.5	10.5 to 11	14 to 14.5	17 to 17.5	27 to 27.5	55 to 57
Overcurrent threshold	A	17.2 to 18.8	9.2 to 10	7.2 to 7.9	5.7 to 6.3	3.6 to 4	1.8 to 2
Voltage stability	Input variation	%	0.8max.(0.5typ.)[Within the input voltage range]				
	Load variation	%	1max.(0.5typ.)[10 to 100% load]				
	Temperature variation	%	1.2max.(0.4typ.)[0 to +50°C]				
	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	50max.	50max.	80max.	80max.	100max.	100max.
Ripple noise Ep-p	mV	Output voltage×0.5%+50max.[50MHz max.]					
Start up time	ms	150max.(90typ.)[25°C, input and output ratings]					
Hold up time	ms	20min.(35typ.)[25°C, input and output ratings]					
Accessory equipment							
Overvoltage protection		Voltage shielding type, recovers upon reset.					
Overcurrent protection		Fixed current and output voltage threshold type, automatic recovery.					
Remote ON-OFF		Yes(Floating)					
Remote sensing		Yes					
Standards							
Safety standards		UL478, CSA ELECTRICAL BULLETIN No.1402 approved.					
Noise terminal voltage		CISPR standard compliant.					
Construction							
External dimensions H×W×L	mm	130×55×224					
Weight	kg	1.5max.					
Mounting method		Can be attached to 4 sides.					
Case material		Aluminum(Phosphoric acid anodized surface)					

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

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AC Input

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100W TYPE

Part No.		RM05-20RGB	RM09-11RGB	RM12-8R5GB	RM15-7R0GB	RM24-4R5GB	RM48-2R2GB
Output voltage, current*		5V • 20A	9V • 11A	12V • 8.5A	15V • 7A	24V • 4.5A	48V • 2.2A
Maximum output power	W	110	110	115	116	119	117
Input requirements							
Input voltage Eac	V	85 to 132[Rating:100-115]					
Input frequency	Hz	47 to 440[Rating:50-60](Single phase)					
Input capacitance	VA	220max.[At maximum output power]					
Fuse rating	A	5[Internal]					
Surge current	A	15/17max.[25°C, input and output ratings, 1st surge current, reset after roughly 5s min.]					
Leakage current	mA	0.5max.(0.3typ.)[25°C, input and output ratings]					
Efficiency	%	78typ.[25°C, input and output ratings]					
Output characteristics							
Output voltage	V	5	9	12	15	24	48
Voltage variable range	V	4 to 5.5	7.2 to 10	9.5 to 13.5	12 to 16.5	19 to 26.5	38.4 to 53
Maximum output current*	A	20	11	8.5	7	4.5	2.2
Overvoltage threshold	V	6 to 6.5	10.5 to 11	14 to 14.5	17 to 17.5	27 to 27.5	55 to 57
Overcurrent threshold	A	23 to 25	12.6 to 13.8	9.7 to 10.7	8 to 8.8	5.1 to 5.7	2.5 to 2.8
Voltage stability	Input variation	%	0.8max.(0.5typ.)[Within the input voltage range]				
	Load variation	%	1max.(0.5typ.)[10 to 100% load]				
	Temperature variation	%	1.2max.(0.4typ.)[0 to +50°C]				
	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	50max.	50max.	80max.	80max.	100max.	100max.
Ripple noise Ep-p	mV	Output voltage×0.5%+50max.[50MHz max.]					
Start up time	ms	150max.(90typ.)[25°C, input and output ratings]					
Hold up time	ms	20min.(35typ.)[25°C, input and output ratings]					
Accessory equipment							
Overvoltage protection		Voltage shielding type, recovers upon reset.					
Overcurrent protection		Fixed current and output voltage threshold type, automatic recovery.					
Remote ON-OFF		Yes(Floating)					
Remote sensing		Yes					
Standards							
Safety standards		UL478, CSA ELECTRICAL BULLETIN No.1402 approved.					
Noise terminal voltage		CISPR standard compliant.					
Construction							
External dimensions H×W×L	mm	130×83×224					
Weight	kg	1.8max.					
Mounting method		Can be attached to 4 sides.					
Case material		Aluminum(Phosphoric acid anodized surface)					

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

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RM-GB Series

AC Input

Single Output, Long Life

SPECIFICATIONS

150W TYPE

Part No.		RM05-30RGB	RM09-16RGB	RM12-12RGB	RM15-10RGB	RM24-6R0GB	RM48-3R0GB
Output voltage, current*		5V • 30A	9V • 16A	12V • 12A	15V • 10A	24V • 6A	48V • 3A
Maximum output power	W	165	160	162	165	159	159
Input requirements							
Input voltage Eac	V	85 to 132[Rating:100-115]					
Input frequency	Hz	47 to 440[Rating:50-60](Single phase)					
Input capacitance	VA	390max.[At maximum output power]					
Fuse rating	A	6[Internal]					
Surge current	A	15/17max.[25°C, input and output ratings, 1st surge current, reset after roughly 5s min.]					
Leakage current	mA	0.5max.(0.3typ.)[25°C, input and output ratings]					
Efficiency	%	78typ.[25°C, input and output ratings]					
Output characteristics							
Output voltage	V	5	9	12	15	24	48
Voltage variable range	V	4 to 5.5	7.2 to 10	9.5 to 13.5	12 to 16.5	19 to 26.5	38.4 to 53
Maximum output current*	A	30	16	12	10	6	3
Overvoltage threshold	V	6 to 6.5	10.5 to 11	14 to 14.5	17 to 17.5	27 to 27.5	55 to 57
Overcurrent threshold	A	34.5 to 37.5	18 to 20	13.8 to 15	11.5 to 12.5	6.9 to 7.5	3.4 to 3.8
Voltage stability	Input variation	%	0.8max.(0.5typ.)[Within the input voltage range]				
	Load variation	%	1max.(0.5typ.)[10 to 100% load]				
	Temperature variation	%	1.2max.(0.4typ.)[0 to +50°C]				
	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	50max.	50max.	80max.	80max.	100max.	100max.
Ripple noise Ep-p	mV	Output voltage×0.5%+50max.[50MHz max.]					
Start up time	ms	150max.(90typ.)[25°C, input and output ratings]					500max.(250typ.)
Hold up time	ms	20min.(35typ.)[25°C, input and output ratings]					
Accessory equipment							
Overvoltage protection		Voltage shielding type, recovers upon reset.					
Overcurrent protection		Fixed current and output voltage threshold type, automatic recovery.					
Remote ON-OFF		Yes(Floating)					
Remote sensing		Yes					
Standards							
Safety standards		UL478, CSA ELECTRICAL BULLETIN No.1402 approved.					
Noise terminal voltage		CISPR standard compliant.					
Construction							
External dimensions H×W×L	mm	130×103×224					
Weight	kg	2.3max.					
Mounting method		Can be attached to 4 sides.					
Case material		Aluminum(Phosphoric acid anodized surface)					

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

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AC Input

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SPECIFICATIONS

300W TYPE

Part No.		RM05-60RGB	RM09-32RGB	RM12-27RGB	RM15-23RGB	RM24-16RGB	RM48-6R0GB
Output voltage, current*		5V • 60A	9V • 32A	12V • 27A	15V • 23A	24V • 16A	48V • 6A
Maximum output power	W	330	320	365	380	384	318
Input requirements							
Input voltage Eac	V	85 to 132[Rating:100-115]					
Input frequency	Hz	47 to 440[Rating:50-60](Single phase)					
Input capacitance	VA	750max.[At maximum output power]					
Fuse rating	A	15[Internal]					
Surge current	A	20/25max.[25°C, input and output ratings, 1st surge current, reset after roughly 40s min.]					
Leakage current	mA	0.5max.(0.3typ.)[25°C, input and output ratings]					
Efficiency	%	80typ.[25°C, input and output ratings]					
Output characteristics							
Output voltage	V	5	9	12	15	24	48
Voltage variable range	V	4 to 5.5	7.2 to 10	9.5 to 13.5	12 to 16.5	19 to 26.5	38.4 to 53
Maximum output current*	A	60	32	27	23	16	6
Overvoltage threshold	V	6 to 6.5	10.5 to 11	14 to 14.5	17 to 17.5	27 to 27.5	55 to 57
Overcurrent threshold	A	66 to 72	35.5 to 41	30 to 34	25 to 29	17 to 18.5	6.6 to 7.4
Voltage stability	Input variation	%	0.8max.(0.5typ.)[Within the input voltage range]				Total variation ±2max.(±1.3typ.)
	Load variation	%	1max.(0.5typ.)[10 to 100% load]				
	Temperature variation	%	1.2max.(0.4typ.)[0 to +50°C]				
	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	50max.	50max.	80max.	80max.	100max.	100max.
Ripple noise Ep-p	mV	Output voltage×0.5%+50max.[50MHz max.]					
Start up time	ms	150max.(90typ.)[25°C, input and output ratings]					500max.(250typ.)
Hold up time	ms	20min.(30typ.)[25°C, input and output ratings]					
Accessory equipment							
Overvoltage protection		Voltage shielding type, recovers upon reset(interval approx. 40s).					
Overcurrent protection		Fixed current and output voltage threshold type, automatic recovery.					
Remote ON-OFF		Yes(Floating)					
Remote sensing		Yes					
Standards							
Safety standards		UL478, CSA ELECTRICAL BULLETIN No.1402 approved.					
Noise terminal voltage		CISPR standard compliant.					
Construction							
External dimensions H×W×L	mm	130×153×224					
Weight	kg	3.8max.					
Mounting method		Can be attached to 4 sides.					
Case material		Aluminum(Phosphoric acid anodized surface)					

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

Power Supplies

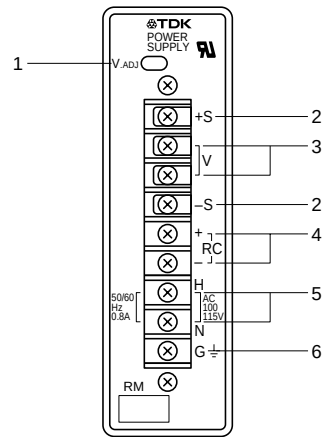
RM-GB Series

AC Input

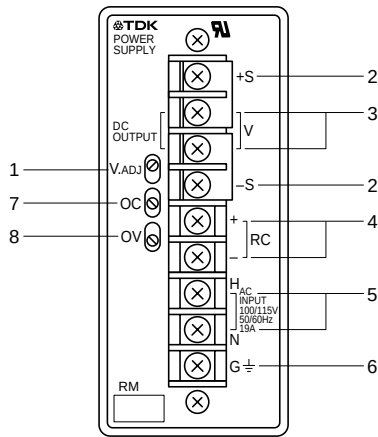
Single Output, Long Life

TERMINAL DESIGNATIONS AND FUNCTIONS

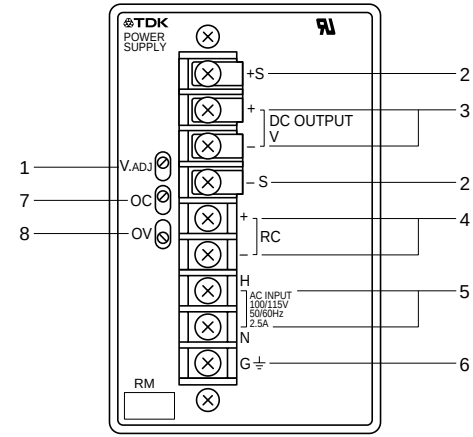
30W TYPE



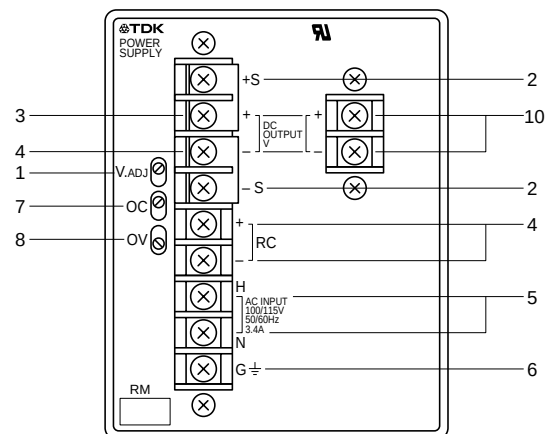
50W AND 75W TYPES



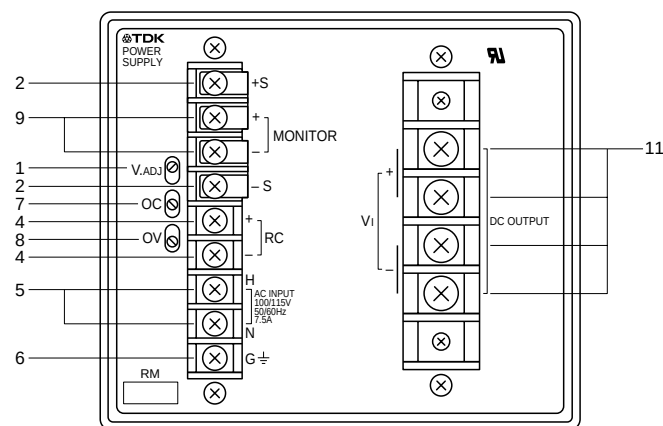
100W TYPE



150W TYPE



300W TYPE



Terminal No. 1: Output voltage adjustment trim(V.ADJ)

Adjusts output voltage.

Terminal No. 2: Remote sensing terminals(+S, -S)

These are normally jumpered. When controlling voltage to the load, please remove jumper, and wire these.

Terminal No. 3: DC output terminals(+, -)

Connect to load.

Terminal No. 4: Remote ON-OFF terminals(+RC, -RC)

Output is turned ON-OFF by disconnecting-connecting the RC terminals(output ON when open). RC terminals are floating.

Terminal No. 5: AC input terminals(H, N, AC.100/115V)

Connect to AC.100/115V single phase power supply.

Terminal No. 6: Frame ground terminal(G)

Connect to earth ground. This is connected to the case.

Terminal No. 7: Overcurrent adjustment trim(OC)

This is adjusted at the factory prior to shipment.

Terminal No. 8: Overvoltage adjustment trim(OV)

This is adjusted at the factory prior to shipment.

Terminal No. 9: Monitor terminals(MONITOR, +, -)

This terminal is used to monitor DC current output.

Load lines should not be connected to these monitor terminals.

These monitor terminals should be jumpered when the remote monitoring feature is not in use.

Terminal No. 10: DC output terminals (DC OUTPUT, +, -)

150W type

Connect to load. Maximum permissible current for a single terminal is 25A. Use of terminal pairs is recommended.

Terminal No. 11: DC output terminals(DC OUTPUT, +, -)

300W type

Connect to load. Maximum permissible current for a single terminal is 40A. Use of terminal pairs is recommended.

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