

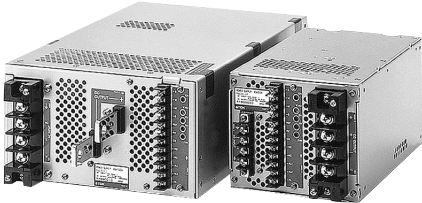
Power Supplies

RGW Series

AC Input
Single Output, Long Life

FEATURES

- Since input voltage can be selected over a range of AC. 85 to 264V(AC. 100 to 240V rating), these power supplies are compatible with industrial power voltages throughout the world.
- With enhanced reliability due to an internal PFC(power factor correction) circuit, these power supplies are incorporated in equipment designed to meet the requirements of a wide range of applications.



APPLICATIONS

Computers, communication equipment, electronic controllers, data equipment, conveyer equipment, test equipment.

PART NUMBERS AND RATINGS

Output voltage(V)	350W type		1500W type	
	Current(A)	Part No.	Current(A)	Part No.
3	70	RGW03-70R	300	RGW03-300
5	70	RGW05-70R	300	RGW05-300
12	30	RGW12-30R	125	RGW12-125
15	24	RGW15-24R	100	RGW15-100
24	16	RGW24-16R	65	RGW24-65R
28	13	RGW28-13R	55	RGW28-55R
48	7.5	RGW48-7R5	32	RGW48-32R

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SPECIFICATIONS

350W TYPE

Part No.			RGW03-70R	RGW05-70R	RGW12-30R	RGW15-24R	RGW24-16R	RGW28-13R	RGW48-7R5
Output voltage, current*1			3V • 70A	5V • 70A	12V • 30A	15V • 24A	24V • 16A	28V • 13A	48V • 7.5A
Maximum output power	W		245	350	360	360	384	364	360
Input requirements									
Input voltage Eac	V		85 to 264[Rating:100-240]						
Input frequency	Hz		47 to 66[Rating:50-60](Single phase)						
Input current	A		6.6/5.6/2.3max.[85/100/240V]						
	A		3V:4.7/4/1.7max.[85/100/240V]						
Fuse rating	A		10[Internal]						
Surge current	A		20/40max.[120/240V, 1st surge current, reset after roughly 30s min.]						
Leakage current	mA		0.5/0.75max.[120/240V, output rating]						
Power factor			0.99typ.						
Efficiency	%	[100V]	65typ.	72typ.	73typ.	75typ.	76typ.	77typ.	79typ.
		[240V]	68typ.	76typ.	77typ.	78typ.	79typ.	80typ.	82typ.
Output characteristics									
Output voltage	V		3	5	12	15	24	28	48
Voltage variable range	V		1.8 to 3.5	3.5 to 5.5	8.4 to 13.2	12 to 16.5	16.5 to 26.4	25.2 to 30.8	30.8 to 52.8
Maximum output current*1	A		70	70	30	24	16	13	7.5
Minimum output current	A		0	0	0	0	0	0	0
Overvoltage threshold*2	%		To output setting voltage 3V, 5V:+20 to +40, 12V to 28V:+10 to +30, 48V:+3 to +23						
Overcurrent threshold	A		73 to 84	73 to 84	31.5 to 36	25.2 to 28.8	16.8 to 19.2	13.6 to 15.6	7.8 to 9
Voltage stability	Input variation	%	0.1max.(0.05typ.)[Within the input voltage range]						
	Load variation	%	0.3max.(0.1typ.)[0 to 100% load]						
	Temperature variation	%	1max.(0.5typ.)[−10 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, tr, tf ≥ 50μs]						
Ripple Ep-p	mV		50typ.	50typ.	70typ.	70typ.	100typ.	100typ.	100typ.
Ripple noise Ep-p	mV		100typ.	100typ.	150typ.	150typ.	200typ.	200typ.	300typ.
Start up time	ms		900max.(500typ.)/900max.(300typ.)[100/240V]						
Hold up time	ms		20min.(45typ.)/20min.(50typ.)[100/240V]						
Accessory equipment									
Operation indicator			LED(green) illuminates when voltage output is ON.						
Overvoltage protection*2, *3			Output voltage shielding type, LED(red) illuminates when AL1 output signal goes to OV LED.						
Low voltage protection*2, *3			Output voltage shielding type, LED(red) illuminates when AL1 output signal goes to UV LED.						
Overcurrent protection*3			Fixed current and voltage threshold type(output limited when low voltage detected).						
Fan alarm*3			LED(red) illuminates when AL2 output signal goes to FAN LED.						
Overheat protection*3			Output voltage shielding type, LED(red) illuminates when AL1 output signal goes to OV LED and UV LED illuminates simultaneously.						
Remote ON-OFF			Yes(Floating)						
Remote sensing			Yes						
Current balance			Yes						
Output voltage external variable function			Yes						
Master slave operation			Yes						
Alarm signal			Yes						
Standards									
Safety standards			UL1950, CSA C22.2 No.234, EN60950(TÜV) approved.						
Noise terminal voltage			FCC class A, VCCI class 1(500kHz to 30MHz) compliant.						
Input harmonics current requirement			IEC1000-3-2 compliant.						
Construction									
External dimensions H×W×L	mm		110×130×220						
Weight	kg		2.5max.						
Mounting method			Can be attached to 4 sides.						
Case material			Frame and cover:Aluminum						

*1 Current rating(maximum output current) is determined for -10 to +50°C. Derating is required when used outside this temperature range.

*2 Tracking method detection(detention threshold follows output voltage).

*3 Recovers upon reset(interval approx. 40s).

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SPECIFICATIONS

1500W TYPE

Part No.		RGW03-300	RGW05-300	RGW12-125	RGW15-100	RGW24-65R	RGW28-55R	RGW48-32R
Output voltage, current*1		3V • 300A	5V • 300A	12V • 125A	15V • 100A	24V • 65A	28V • 55A	48V • 32A
Maximum output power	W	1050	1500	1500	1500	1560	1540	1536
Input requirements								
Input voltage Eac	V	85 to 264[Rating:100-240]						
Input frequency	Hz	47 to 66[Rating:50-60](Single phase)						
Input current	A	29/22/10max.[85/100/240V]						
	A	3V:18/16/7max.[85/100/240V]						
Fuse rating	A	30[Internal]						
Surge current	A	20/40max.[120/240V, 1st surge current, reset after roughly 30s min.]						
Leakage current	mA	1/2max.[120/240V, output rating]						
Power factor		0.99typ.						
Efficiency	%	[100V]	70typ.	75typ.	76typ.	76typ.	78typ.	79typ.
		[240V]	73typ.	80typ.	81typ.	81typ.	82typ.	83typ.
Output characteristics								
Output voltage	V	3	5	12	15	24	28	48
Voltage variable range	V	1.8 to 3.5	3.5 to 5.5	8.4 to 13.2	12 to 16.5	16.5 to 26.4	25.2 to 30.8	30.8 to 52.8
Maximum output current*1	A	300	300	125	100	65	55	32
Minimum output current	A	0	0	0	0	0	0	0
Overvoltage threshold*2	%	To output setting voltage 3V, 5V:+20 to +40, 12V to 28V:+10 to +30, 48V:+3 to +23						
Overcurrent threshold	A	315 to 350	315 to 350	130 to 140	105 to 115	68 to 72	57.7 to 63.2	33.6 to 36.8
Voltage stability	Input variation	%	0.1max.(0.05typ.)[85 to 132V, 170 to 264V]					
	Load variation	%	0.4max.(0.3typ.)[0 to 100% load]					
	Temperature variation	%	1max.(0.5typ.)[-10 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, tr, tf ≥ 50μs]					
Ripple Ep-p	mV	100max.	100max.	100max.	100max.	100max.	100max.	100max.
Ripple noise Ep-p	mV	200max.	200max.	200max.	200max.	200max.	200max.	300max.
Start up time	ms	900max.(600typ.)/900max.(300typ.)[100/240V]						
Hold up time	ms	20min.(40typ.)/20min.(50typ.)[100/240V]						
Accessory equipment								
Operation indicator		LED(green) illuminates when voltage output is ON.						
Overvoltage protection*2, *3		Output voltage shielding type, LED(red) illuminates when AL1 output signal goes to OV LED.						
Low voltage protection*2, *3		Output voltage shielding type, LED(red) illuminates when AL1 output signal goes to UV LED.						
Overcurrent protection*3		Fixed current and voltage threshold type(output limited when low voltage detected).						
Fan alarm*3		LED(red) illuminates when AL2 output signal goes to FAN LED.						
Overheat protection*3		Output voltage shielding type, LED(red) illuminates when AL1 output signal goes to OV LED and UV LED illuminates simultaneously.						
Remote ON-OFF		Yes(Floating)						
Remote sensing		Yes						
Current balance		Yes						
Output voltage external variable function		Yes						
Master slave operation		Yes						
Alarm signal		Yes						
Standards								
Safety standards		UL1950, CSA C22.2 No.234 approved, IEC950 compliant.						
Noise terminal voltage		FCC class A, VCCI class 1(500kHz to 30MHz) compliant.						
Input harmonics current requirement		IEC1000-3-2 compliant.						
Construction								
External dimensions H×W×L	mm	110×203×320						
Weight	kg	7.5max.						
Mounting method		Can be attached to 3 sides.						
Case material		Frame: Steel Cover:Aluminum						

*1 Current rating(maximum output current) is determined for -10 to +50°C. Derating is required when used outside this temperature range.

*2 Tracking method detection(detention threshold follows output voltage).

*3 Recovers upon reset(interval approx. 40s).

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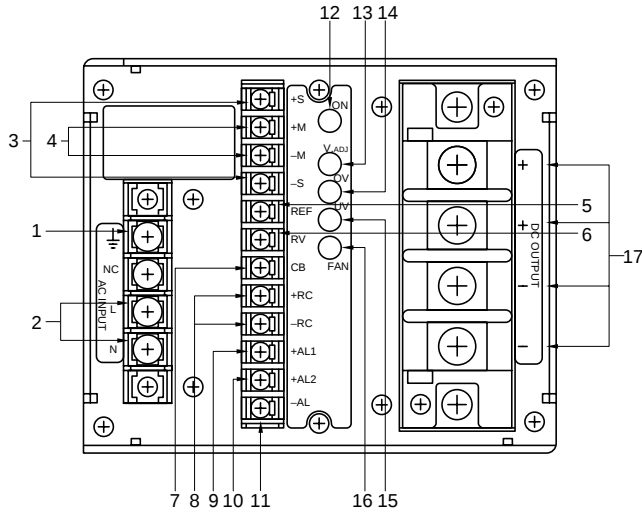
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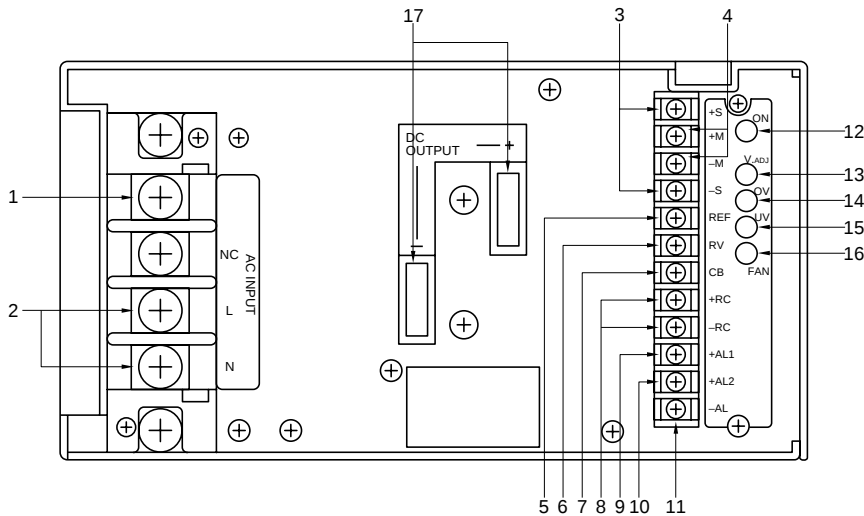
TERMINAL DESIGNATIONS AND FUNCTIONS

350W TYPE



- Terminal No. 1: Ground terminal($\perp$)
- Terminal No. 2: AC input terminals(L, N)
- Terminal No. 3: Remote sensing terminals(+S, -S)
- Terminal No. 4: Output voltage monitor terminals(+M, -M)
- Terminal No. 5: Output voltage standard terminal(REF)
- Terminal No. 6: Output voltage adjustment trim(RV)
- Terminal No. 7: Current balance terminal(CB)
- Terminal No. 8: Remote ON-OFF terminals(-RC, +RC)
- Terminal No. 9: Alarm terminal(+AL1)
- Terminal No. 10: Alarm terminal(+AL2)
- Terminal No. 11: Alarm common terminal(-AL)
- Terminal No. 12: Output display LED(Green)
- Terminal No. 13: Output voltage adjustment trim(V.ADJ)
- Terminal No. 14: Output overvoltage display LED(Red)
- Terminal No. 15: Output low voltage display LED(Red)
- Terminal No. 16: FAN alarm display LED(Red)
- Terminal No. 17: DC output terminals(+, -)

1500W TYPE



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