



Industrial



Test



Comm



Broadcast



LED

50W to 600W Single Output General Purpose Power Supplies



Features	Benefits
• 10 Year e-cap Lifetime	• Better Field Reliability
• 7 Year Warranty	• Lower Cost of Ownership
• Global Safety Approvals	• Supports Worldwide Use
• Compact Size	• Easier System Integration

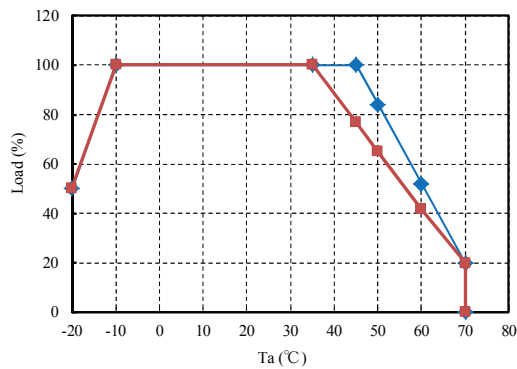
Specification						
Model		RWS50B	RWS100B	RWS150B	RWS300B	RWS600B
AC Input Voltage range (1)	VAC	85 - 265VAC (47 - 63Hz), 300VAC for 5 seconds				
Inrush Current (100 / 200VAC)	A	18 / 36	15 / 30	16 / 32	17 / 34	20 / 40
Power Factor (100 / 200VAC)	-	Meets EN61000-3-2				
Input Current (115/230VAC) (typ)	A	1.1 / 0.65	1.2 / 0.65 (5V model 0.9/0.45)	1.8 / 0.9 (5v model 1.3/0.7)	3.6 / 1.9 (5v model 3.1/1.6)	6.6 / 3.6 (5v model 6.2/3.2)
DC Input	VDC	120 - 370VDC				120 - 330VDC
Temperature Coefficient	-	<0.02%/°C				
Regulation	-	See table				
Overcurrent Protection	-	>105%, 5V & 12V constant current limit & hiccup autorecovery, 24V & 48V constant current limit with autorecovery				
Overvoltage Protection	V	115-140%, Cycle AC line to reset				
Hold Up Time (typ at full load)	ms	20ms				
Leakage Current (max)	uA	750uA maximum, typically 175uA at 115VAC, 63Hz				
Remote Sense	-	No				
Remote ON/OFF Control (4)	-	-	-	-	Option	Option
Parallel Operation	-	-	-	-	-	Option
Operating Temperature (1)	-	-20° to +70°C, derate above 45°C for 50W & 100W, 40°C for 150W & 50°C for 300W & 600W (see graphs below)				
Storage Temperature	-	-30° to +75°C				
Operating Humidity (non condensing)	%RH	30 - 90				
Storage Humidity (non condensing)	%RH	10 - 90				
Cooling	-	Convection			Internal Fan	
Withstand Voltage	-	Input to Ground 2kVAC, Input to Output 3kVAC, Output to Ground 500VAC for 1 min.				
Isolation Resistance	-	>100M at 25°C & 70%RH, Output to Ground 500VDC				
Vibration (non operating)	-	10 - 55Hz: 19.6m/s ² (sweep 1 min) X, Y, Z for 1 hour				
Shock	-	< 196.1 m/s ²				
Safety Agency Approvals (2) (3)	-	IEC/EN/UL/CSA60950-1, IEC/EN/UL/CSA62368-1, UL508 and CE Mark				
Line Dips	-	SEMI-F47 (200VAC input)				
Conducted & Radiated EMI	-	EN55011 / EN55022-B, FCC Class B, VCCI-B				
Immunity	-	IEC61000-4-2, -3, -4, -5, -6, -8, -11				
Weight (Typ)	g	230	400	480	900	1600
Size (WxHxD)	mm	82 x 34 x 81.5	94 x 39 x 108	94 x 41 x 128	102 x 41 x 170	120 x 61 x 190
MTBF (5)	hours	4,170,949	1,978,533	2,235,743	2,027,824	2,157,340
Warranty	Yrs	7				

Notes: (1) See graphs below for derating at low line input voltage
 (2) UL508 & CSA C22.2 No. 107.1-01 on RWS50B-5, -12, -24, RWS100B-5, -12, -24, RWS150B-5, -12, -24 & RWS300B-24 only
 (3) Consult Sales Office for use under DC Input conditions (4) External 5V source required, see instruction manual for details
 (5) According to Telcordia document SR-332, issue 3, "Reliability Prediction Procedure for Electronic Equipment".
 Conditions: ambient temp. 25deg C, 230Vac input, full load (figures shown for 24V models)

Model Selector

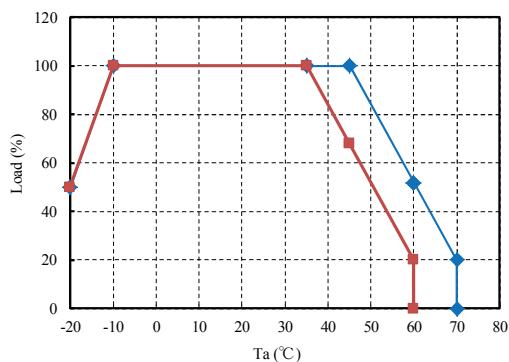
Model	Voltage	Adjust Range (V)	Max Current (A)	Max Output Power	Load Reg. (mV)	Line Reg. (mV)	Ripple Noise (mV)	Efficiency (typ) % 115/230VAC
RWS50B-5	5V	4.5-5.75	10	50	40	20	120	78 / 79
RWS100B-5	5V	4.5-5.75	14	70	40	20	120	77.5 / 79
RWS150B-5	5V	4.5-5.75	21	105	40	20	120	77.5 / 79.5
RWS300B-5	5V	4.5-5.75	50	250	40	20	120	75 / 78.5
RWS600B-5	5V	4.5-5.75	100	500	70	20	120	74 / 77.5
RWS50B-12	12V	10.8-13.8	4.3	51.6	96	48	150	83 / 84
RWS100B-12	12V	10.8-13.8	8.5	102	96	48	150	83 / 84
RWS150B-12	12V	10.8-13.8	13	156	96	48	150	84.5 / 87.5
RWS300B-12	12V	10.8-13.8	25	300	96	48	150	79.5 / 82.5
RWS600B-12	12V	10.8-13.8	50	600	96	48	150	82 / 84.5
RWS100B-15	15V	13.5-17.25	6.8	102	120	60	150	84 / 85
RWS150B-15	15V	13.5-17.25	10	150	120	60	150	84.5 / 87.5
RWS300B-15	15V	13.5-17.3	20	300	120	60	150	81.5 / 84.5
RWS600B-15	15V	13.5-17.3	40	600	120	60	150	82 / 84.5
RWS50B-24	24V	21.6-27.6	2.2	52.8	192	96	150	86 / 87
RWS100B-24	24V	21.6-27.6	4.5	108	192	96	150	86 / 87.5
RWS150B-24	24V	21.6-27.6	6.5	156	192	96	150	86.5 / 89.5
RWS300B-24	24V	21.6-27.6	12.5	300	192	96	150	85 / 88
RWS600B-24	24V	21.6-27.6	25	600	192	96	150	85 / 88.5
RWS150B-28	28V	25.2-32.2	5.4	151.2	224	112	180	86.5 / 89.5
RWS300B-36	36V	32.4-41.4	8.4	302.4	288	144	200	85 / 88
RWS600B-36	36V	32.4-41.4	16.7	601.2	288	144	200	84 / 88.5
RWS50B-48	48V	43.2-52.8	1.1	52.8	384	192	200	87 / 88
RWS100B-48	48V	43.2-52.8	2.1	100.8	384	192	200	86 / 87
RWS150B-48	48V	43.2-52.8	3.3	158.4	384	192	200	86.5 / 89.5
RWS300B-48	48V	43.2-52.8	6.3	302.4	384	192	200	85 / 88
RWS600B-48	48V	43.2-52.8	12.5	600	384	192	200	85 / 88.5

Output Derating RWS50B Series



Ta (°C)	Load (%)	
	Mounting (A)	Mousing (B),(C),(D)
-20	50	50
-10 - +35	100	100
45	100	77
50	84	65
60	52	42
70	20	20

Output Derating RWS100B Series



Ta (°C)	Load (%)	
	Mounting (A)	Mousing (B),(C),(D)
-20	50	50
-10 - +35	100	100
45	100	68
60	52	20
70	20	-