

# Low Noise Power Supply RISE50-Wseries Specification

Equipped model (Manufactured by Cosel)	PBW50F-12	PBW50F-15
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## Specification

Series Name	RISE50-W12	RISE50-W15
Output Voltage ※5	±12V	±15V
Output Current	1.8A	1.5A
Maxium Output Power ※3	43.2W	45W

MODEL		RISE50-W12	RISE50-W15
Input	Voltage [V]	AC85~264 1φ or DC120~370	
	Current [A]	ACIN 100V	0.70typ
		ACIN 200V	0.40typ
	Frequency [Hz]	50/60 (47~63)	
	Efficiency [%]	ACIN 100V	73typ
		ACIN 200V	74typ
	Power Factor (lo=100%)	ACIN 100V	0.99typ
		ACIN 200V	0.93typ
	Inrush Current [A]	ACIN 100V	15typ (lo=100%) (Cold Start)
ACIN 200V		30typ (lo=100%) (Cold Start)	
Leakage Current [mA]	0.40/0.75 max (ACIN 100V/240V 60Hz, lo=100%, Mesure with IEC60950-1)		
Output	Nominal Voltage [V]	±12	±15
	Nominal Current [A]	1.8	1.5
	Line Regulation [mV]	48max	60max
	Load Reguration [mV] ※7	100max	100max
	Ripple [mVp-p] ※1	2typ	2typ
	Ripple Noise [mVp-p] ※1	5typ	5typ
	Operating Temperature Change [mV]	120max (0°C~+50°C)	150max (0°C~+50°C)
	Warm-Up Drift [mV] ※2	48max	60max
	Start-up Time [ms]	350typ (ACIN 100V, lo=100%)	
	Hold-up Time [ms]	20typ (ACIN 100V, lo=100%)	
	Output Voltage Range [V] ※8	11.4~12.6(+V, -V Simultaneous change)	14.25~15.75(+V, -V Simultaneous change)
	Voltage Setting Accuracy [V]	11.7~12.3 (+V, -V Nominal Current)	14.7~15.3 (+V, -V Nominal Current)
Additional Function	Over Current Protection	Start at 105% at Nominal Current, Auto - recovery	
	Over Voltage Protection [V]	16.80~24.00	20.00~29.00
	Running Indicate	LED Indicator : Green	
Isolation	Input - Output •RC ※4	AC3,000V 1min Cut off Current =over 10mA, DC500V 50MΩ (Normal temperature / humidity)	
	Input - FG	AC2,000V 1min Cut off Current =over 10mA, DC500V 50MΩ (Normal temperature / humidity)	
	Output •RC - FG ※4	AC500V 1min Cut off Current = over 100mA, DC500V 50MΩ (Normal temperature / humidity)	
Enviromental Condition	Operating Temperature / Humidity	-10~+60°C(With output), 20~90%RH (Non Condensing)	
	Strage Temperature / Humidity	-20~+75°C, 20~90%RH (Non Condensing)	
	Vibrartion Resistance	10~55Hz 19.6m/s <sup>2</sup> (2G) period 3min, 1hour for X, Y, Z direction	
	Shock Resistance	196.1m/s <sup>2</sup> (20G) 11ms 1time for X, Y, Z, direction	
Others ※6	Safety Standard (Compliance)	UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178, PSE Compliance	
	Conducted Emission (Compliance)	FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B Compliance	
	Harmonic Current Characteristics	IEC61000-3-2 Compliance	
Structure	Size (W x H x D), Weight	W34.5 x H128.5 x D120mm (Without terminal standard) / 550g max	
	Cooling System	Convection	

※1 Measured by 20MHZ oscilloscope or Ripple-Noise meter(Equivalent to KEISOKU-GIKEN: RM101)

※2 Drift is the change in DC output for an eight hour period after a half-hour warm-up at 25°C

※3 The sum of +power -power must be less than output power

※4 RC is applied to remote ON/OFF option. RC is isolated with input/output and FG

※5 ±12V, ±15V can be used as +24 and +30V but specification of output will change. Please contact us for detail.

※6 Applied for PBW(Cosel) itself

※7 Other side's current (Non-measurement side) is fixed

※8 The case use only single output, output voltage range has possibility to be change.

※ Do not use this power supply unit under overload state or outside of its nominal intended use that will cause damage or malfunctions.

※ Derating is required

※ Parallel operation with other model is not possible

※ A sound may occur from power supply at peak loading.



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