Low Noise Power Supply RISE50-Wseries Specification

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

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 (Io＝100%)	ACIN 100V	0.99typ	
		ACIN 200V	0.93typ	
	Inrush Current [A]	ACIN 100V	15typ (Io＝100%) (Cold Start)	
		ACIN 200V	30typ (Io＝100%) (Cold Start)	
	Leakage Current [mA]		0.40/0.75 max (ACIN 100V/240V 60Hz, Io＝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℃～+50℃)	150max (0℃～+50℃)
	Warm-Up Drift [mV] ※2		48max	60max
	Start-up Time [ms]		350typ (ACIN 100V, Io＝100%)	
	Hold-up Time [ms]		20typ (ACIN 100V, Io＝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 tenperature / humidity)	
	Input - FG		AC2,000V 1min Cut off Current ＝over 10mA, DC500V 50MΩ (Normal tenperature / humidity)	
	Output・RC - FG ※4		AC500V 1min Cut off Current ＝ over 100mA, DC500V 50MΩ (Normal tenperature / humidity)	
Enviromental Condition	Operating Temperature / Humidity		-10～+60℃(With output) , 20～90%RH (Non Condensing)	
	Strage Temperature / Humidity		-20～+75℃, 20～90%RH (Non Condensing)	
	Vibrartion Resistance		10～55Hz 19.6m/s2 (2G) period 3min, 1hour for X, Y, Z direction	
	Shock Resistance		196.1m/s2 (20G) 11ms 1time for X, Y, Z, direction	
Others ※6	Safety Standard (Compliance)		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 , PSE Compliace	
	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 × H128.5 × 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℃
※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-mesurement side) is fixied
※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.