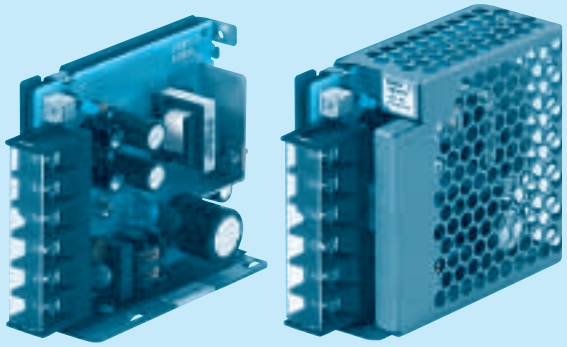
COSEL **Unit type**

PBW15F

Ordering information

PB	W	15	F	-□	-□
①	②	③	④	⑤	⑥

RoHS



Cover is optional

Recommended Noise Filter
NAC-06-472

High voltage pulse noise type : NAP series
Low leakage current type : NAM series
＊The Noise Filter is recommended to connect with several devices.

①Series name
②Dual output
③Output wattage
④Universal input
⑤Output voltage
⑥Optional
C :with Coating
G :Low leakage current
E :Low leakage current and EMI class A
T :Vertical terminal block
J :Connector type
N :with Cover
N1 :with DIN rail
V :Output voltage setting potentiometer externally

MODEL		PBW15F-12	PBW15F-15
MAX OUTPUT WATTAGE[W]	＊5	16.8	15.0
DC OUTPUT	VOLTAGE[V] ＊6	±12 (+24)	±15 (+30)
	CURRENT1[A]	0.7	0.5
	CURRENT2[A] ＊5	1.4	1.0

SPECIFICATIONS

	MODEL		PBW15F-12	PBW15F-15
INPUT	VOLTAGE[V]		AC85 - 264 1φ or DC110 - 370 (AC50 or DC70 Please refer to the instruction manual 2.1 Input voltage ＊8)	
	CURRENT[A]	ACIN 100V	0.40typ (CURRENT1)	
		ACIN 200V	0.20typ (CURRENT1)	
	FREQUENCY[Hz]		50/60 (47 - 440) or DC	
	EFFICIENCY[%]	ACIN 100V	74typ (CURRENT1)	78typ (CURRENT1)
		ACIN 200V	77typ (CURRENT1)	80typ (CURRENT1)
	INRUSH CURRENT[A]	ACIN 100V	15typ (CURRENT1) (At cold start)	
		ACIN 200V	30typ (CURRENT1) (At cold start)	
	LEAKAGE CURRENT[mA]		0.15/0.30max (ACIN 100V/240V 60Hz, Io=100%, According to IEC60950-1,DENAN)	
OUTPUT	VOLTAGE[V]		±12 / (+24V reference number)	±15 / (+30V reference number)
	CURRENT1[A]		0.7 / 0.7	0.5 / 0.5
	CURRENT2[A]	＊5	1.4 / -	1.0 / -
	LINE REGULATION[mV]	＊9	60max / 96max	60max / 96max
	LOAD REGULATION 1[mV]	＊3	600max / 150max	600max / 150max
	LOAD REGULATION 2[mV]	＊4	750max / -	750max / -
	RIPPLE[mVp-p]	0 to +50℃ ＊1	120max / 240max	120max / 240max
		-10 - 0℃ ＊1	160max / 320max	160max / 320max
	RIPPLE NOISE[mVp-p]	0 to +50℃ ＊1	150max / 300max	150max / 300max
		-10 - 0℃ ＊1	180max / 360max	180max / 360max
	TEMPERATURE REGULATION[mV]	0 to +50℃	120max	150max
		-10 to +50℃	150max	180max
	DRIFT[mV]	＊2	48max	60max
	START-UP TIME[ms]		200typ(ACIN 100V, Io=100%) ＊Start-up time is 700ms typ for less than 1minute of applying input again from turning off the input voltage.	
	HOLD-UP TIME[ms]		20typ (ACIN 100V, Io=100%)	
	OUTPUT VOLTAGE ADJUSTMENT RANGE[V]		9.60 - 13.2 (+V and -V are simultaneously adjusted)	13.2 - 16.5 (+V and -V are simultaneously adjusted)
	OUTPUT VOLTAGE SETTING[V]		11.5 - 12.5 (+V and -V CURRENT1)	14.4 - 15.6 (+V and -V CURRENT1)
PROTECTION CIRCUIT AND OTHERS	OVERCURRENT PROTECTION		Works over 105% of rated current and recovers automatically	
	OVERVOLTAGE PROTECTION[V]		16.8 - 24.0	20.0 - 29.0
	OPERATING INDICATION		LED (Green)	
	REMOTE ON/OFF		None	
ISOLATION	INPUT-OUTPUT		AC3,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)	
	INPUT-FG		AC2,000V 1minute, Cutoff current = 10mA, DC500V 50MΩ min (At Room Temperature)	
	OUTPUT-FG		AC500V 1minute, Cutoff current = 25mA, DC500V 50MΩ min (At Room Temperature)	
ENVIRONMENT	OPERATING TEMP.,HUMID.AND ALTITUDE		-10 to +71℃ (Required Derating), 20 - 90%RH (Non condensing) 3,000m (10,000feet) max	
	STORAGE TEMP.,HUMID.AND ALTITUDE		-20 to +75℃, 20 - 90%RH (Non condensing) 3,000m (10,000feet) max	
	VIBRATION		10 - 55Hz, 19.6m/s² (2G), 3minutes period, 60minutes each along X, Y and Z axis	
	IMPACT		196.1m/s² (20G), 11ms, once each X, Y and Z axis	
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS (At only AC input)		UL60950-1, C-UL(CSA60950-1), EN60950-1, EN50178 Complies with DEN-AN	
	CONDUCTED NOISE		Complies with FCC Part15 classB, VCCI-B, CISPR22-B, EN55011-B, EN55022-B	
	CE MARKING		Low Voltage Directive, EMC Directive	
	HARMONIC ATTENUATOR		Complies with IEC61000-3-2 (Not built-in to active filter ＊7)	
OTHERS	CASE SIZE/WEIGHT		31×78×85mm (without terminal block) (W×H×D) / 200g max (without cover)	
	COOLING METHOD		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 Figures for 0 to rated current 1.The current not measured side is fixed.
＊4 Figures for 0 to rated current 2.The current not measured side is fixed.
＊5 The sum of +power -power must be less than output power.
＊6 ±12,±15 can be used as +24 and +30.
＊7 When two or more units are used,they may not comply with the harmonic attenuator. Please contact us for details.
＊8 Derating is required.
＊9 Figures to rated current 1.
＊ Parallel operation with other model is not possible.
＊ Derating is required when operated with cover.
＊ A sound may occur from power supply at peak loading.