

# PBA300F Series

## 300 Watt Single Output Models

**Cosel**  
Switching Power Supplies

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DIMENSIONS: 6.69 x 4.02 x 1.65"



### FEATURES:

- Miniature 6.69 x 4.02 x 1.65" Package
- Universal AC Input (85-264 VAC)
- Harmonic Attenuation for EN/IEC61000-3-2 Class D Compliance
- Small Size and Light Weight Package
- High Efficiency with Synchronous Rectification Topology
- High Reliability - MTBF > 100K Hours (per EIAJ RCR-9102)
- Full Featured Status and Control Signals
- 5~110% Output Voltage Trim Range
- Parallel & Series Operation (Voltage & Current Balance)
- 5 Year Warranty



### INPUT SPECIFICATIONS:

INPUT VOLTAGE	Universal AC input Range (85-264 VAC / 120-370VDC)
INPUT FREQUENCY	47-63 Hz
INRUSH	20A max @ 100VAC / 40A max @ 200VAC (cold start)
INPUT CURRENT	4.1A typ @ 100VAC / 2.0A typ @ 200VAC
LEAKAGE	<750 $\mu$ A maximum @ 240 VAC
HOLD-UP	20ms typical, full load & 100VAC Operation
EFFICIENCY	68~82% Typical (depending on output model)
HARMONICS	EN61000-3-2, Class D Compliant (>0.98 PF Typ.)

### OUTPUT SPECIFICATIONS:

ADJUSTMENT RANGE	5~110% of Vnom via external trim function
MINIMUM LOAD	none required
REGULATION	60-492mv maximum (line, load & temperature)
RIPPLE	150-200mv pk-pk maximum (20MHz)
SETPOINT ACCURACY	$\pm$ 3 % (maximum)
OVER CURRENT	>105%, auto-recovery
OVER VOLTAGE PROTECTION	115-140% of V1 nominal

### STATUS & CONTROL SPECIFICATIONS:

REMOTE SENSE	Included
REMOTE ON/OFF	High signal enables output VDC
POWER GOOD	Low = OK / High = Fail (Fan or Loss of Vout)
CURRENT SHARE	See detailed spec for connection method
VOLTAGE TRIM	5~110% of Vnom
AUXILIARY OUTPUT	12VSB @ 100ma

### ENVIRONMENTAL SPECIFICATIONS:

OPERATING TEMPERATURE	-10~50°C Full Load (De-Rate 2.5%/°C up to +71°C)
STORAGE TEMPERATURE	-40°C ~ +85°C max.
COOLING	Internal Ball Bearing Fans
HUMIDITY	20~90%RH (non-condensing)
VIBRATION	10-55Hz, 2G, 3min period/60 min each (3axes)
SHOCK	20G Peak Acceleration
RELIABILITY	>100k hours MTBF (per EIAJ RCR-9102)
WEIGHT	2.20

### EMISSIONS:

ELECTROSTATIC DISCHARGE	EN61000-4-2, 4kV Contact / 8kV Air
RADITED SUSCEPTIBILITY	EN61000-4-3, 26-1000MHz, 10V/M, 80%AM
EFT / BURSTS	EN61000-4-4, 2kV
SURGES	EN61000-4-5, 2kV Earth, 1kV Line-Line
CONDUCTED IMMUNITY	EN61000-4-6, 0.15-800MHz, 10V 80%
VOLTAGE DIPS	EN61000-4-10, 95% Dip & 10ms, 30% Dip & 500ms
VOLTAGE INTERRUPTIONS	EN61000-4-11, 95% reduction, 5ms
FLUCTUATIONS & FLICKER	EN61000-3-3

### STANDARDS:

SAFETY	UL/cUL60950-1 EN60950-1 EN50178 (Complies with DEN-AN) CE Mark (LVD)
EMISSIONS	FCC-B VCCI-B, EN55011-B, EN55022-B, CISPR22-B

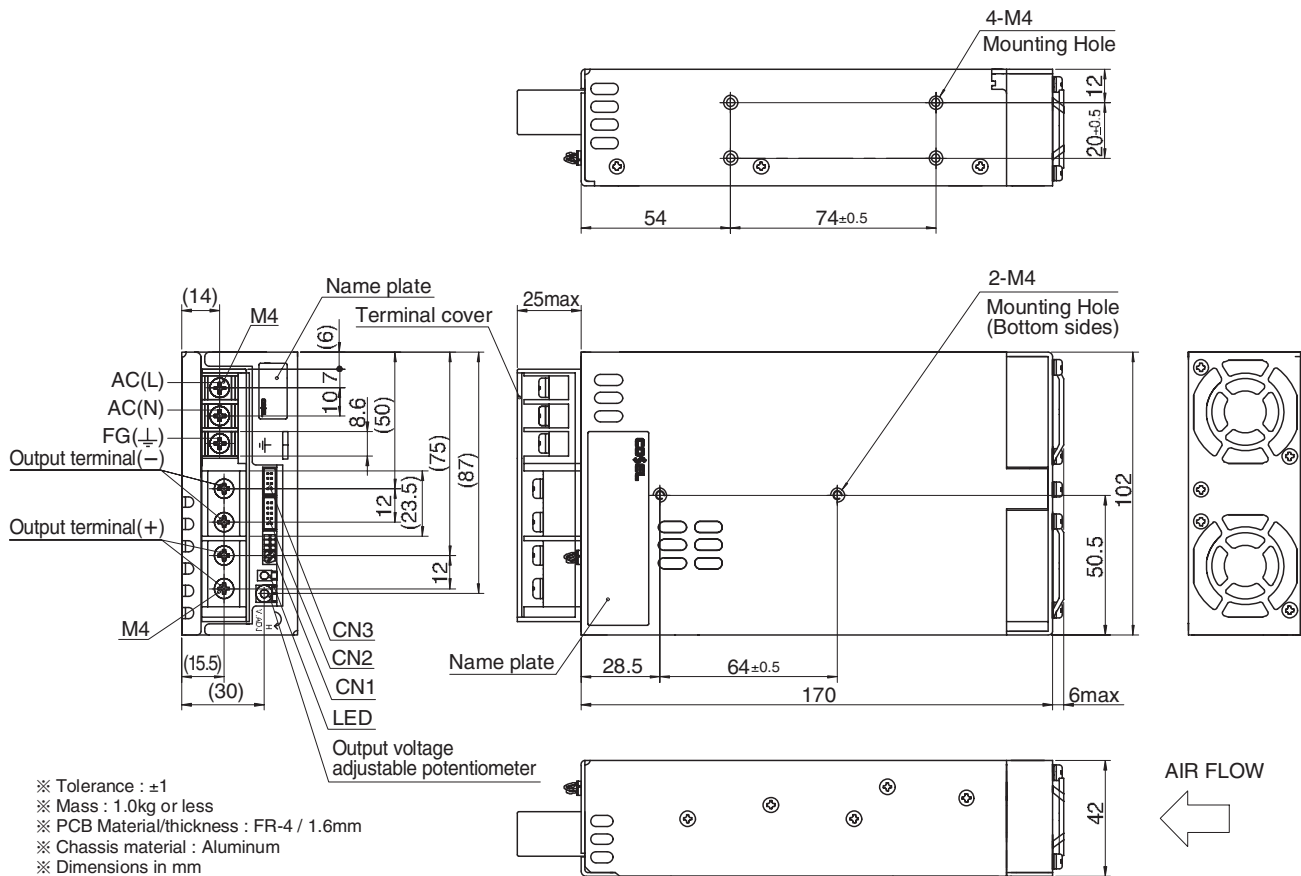
MODELS:	OUTPUT RATINGS	LINE REGULATION	LOAD REGULATION	NOTE:
PBA300F-3R3	3.3V 60A	20mV	40mV	Regulation (maximum over all input / load conditions)
PBA300F-5	5V 60A	20mV	40mV	
PBA300F-7R5	7.5V 40A	36mV	60mV	
PBA300F-12	12V 27A	48mV	100mV	
PBA300F-15	15V 22A	60mV	120mV	
PBA300F-24	24V 14A	96mV	150mV	
PBA300F-36	36V 9A	144mV	150mV	
PBA300F-48	48V 7A	192mV	150mV	

### NOTES:

Options:

- F4 Suffix Low Speed Fan for reduced noise (see derating)
- F3 Suffix Reverse Air option (see derating)
- U Suffix UnderVoltage Operatin down to 50VAC (see derating)
- E Suffix 500uA Leakage Option
- G Suffix 150uA Leakage Option
- C Suffix Conformal Coating

### MECHANICAL OUTLINE:



- ※ Tolerance : ±1
- ※ Mass : 1.0kg or less
- ※ PCB Material/thickness : FR-4 / 1.6mm
- ※ Chassis material : Aluminum
- ※ Dimensions in mm
- ※ Mounting torque : 1.2N • m max
- ※ Screw tightening torque : 1.6N • m max
- ※ The housing for the remote sensing unused is mounted on CN1
- ※ Please connect safety ground to FG terminal on the unit.