P SERIES POWER SUPPLY

P300

COSEL

P

(LVD)

- Small size,2.3W/in^3.
- Autoranging input voltage (AC 85~132V/AC 170~264V)
- Automatic current sharing
- Built-in inrush current, overcurrent and overvoltage protection circuits
- Built-in remote ON/OFF (Isolated from output)
- UL recognized,TÜV approved,CSA certified
- Three-year warranty

■ ORDERING INFORMATION

P300E-5

- Output voltage
- UL recognized,TÜV approved,CSA certified:E
- Output wattage
- Series name

SPECIFICATIONS

	MODEL	P300-5	P300-12	P300-15	P300-18	P300-24	P300-30	P300-48
INPUT	VOLTAGE/ CURRENT	AC85~132V / AC170~264V 1φ Auto ranging			／ 5.5A typ (ACIN 100V,Io=100%) 3.5A typ (ACIN 200V,Io=100%)			
	FREQUENCY	47~63Hz						
	INRUSH CURRENT	25A/40A typ (ACIN 100V) 50A/40A typ (ACIN 200V) (Io=100%) (Primary inrush current value/Secondary inrush current value)						
	EFFICIENCY	74%typ	78%typ	81%typ	81%typ	83%typ	78%typ	79%typ
OUTPUT	VOLTAGE [V]	5	12	15	18	24	30	48
	CURRENT [A]	60	27	22	17	14	10	6.5
	OUTPUT WATTAGE [W]	300	324	330	306	336	300	312
	LINE REGULATION [mV]	20max	48max	60max	72max	96max	120max	192max
	LOAD REGULATION [mV]	40max	100max	120max	144max	150max	180max	300max
	RIPPLE [mVp-p]※2	80max	120max	120max	120max	120max	120max	150max
	RIPPLE NOISE [mVp-p]※2	120max	150max	150max	150max	150max	200max	400max
	TEMPERATURE REGULATION [mV] 0~+50°C	50max	120max	150max	180max	240max	300max	480max
	OUTPUT VOLTAGE ADJUSTMENT RANGE	±10%						
	START-UP TIME [ms]	300max (ACIN 85/170V, Io=100%)						
	HOLD-UP TIME [ms]	20typ (ACIN 85/170V, Io=100%) 40typ (ACIN 100/200V, Io=100%)						
PROTECTION CIRCUIT	OVERCURRENT PROTECTION	Works over 105% of rating and recovers automatically.						
	OVERVOLTAGE PROTECTION	Works at 115~140% of rating						
ISOLATION	INPUT-OUTPUT	AC3,000V, 1minute, DC500V,50MΩmin. (At Room Temperature)						
	INPUT-FG	AC2,000V, 1minute, DC500V,50MΩmin. (At Room Temperature)						
	OUTPUT-FG	AC 500V, 1minute, DC500V,50MΩmin. (At Room Temperature)						
	OUTPUT-REMOTE CONTROLLING	AC 100V, 1minute, DC100V 10MΩmin. (At Room Temperature)						
ENVIRONMENT	OPERATING TEMP., HUMID. AND ALTITUDE	−10~+60℃,20~95%RH (Non condensing) (Refer to DERATING CURVE), 3,000m (10,000feet) max						
	STORAGE TEMP., HUMID. AND ALTITUDE	−20~+75℃,20~95%RH (Non condensing), 9,000m (30,000feet) max						
	VIBRATION	10~55Hz, 19.6m/s^2 (2G), 3 minutes period, 30 minutes along X, Y and Z axis						
	IMPACT	196.1m/s^2 (20G), 11ms, once each X, Y and Z axis						
SAFETY AND NOISE REGULATIONS	AGENCY APPROVALS	UL 1950, EN60950, VDE0160, CSA C22.2 No.234 Complies with DENTORI and IEC60950						
	CONDUCTED NOISE	Complies with FCC-A						

※1 The input current of the agency approved unit is indicated as 6.5A (ACIN 100V) or 3.6A (ACIN 200V).
※2 According to 15MHz ossiloscope or Ripple-Noise meter(equivallent to KEISOKU-GIKEN : RM101).

COSEL

MODEL	P300-5	P300-9	P300-12	P300-15	P300-18	P300-24	P300-30	P300-48
MAX OUTPUT WATTAGE	300W	306W	324W	330W	306W	336W	300W	312W
DC OUTPUT	5V60A	9V34A	12V27A	15V22A	18V17A	24V14A	30V10A	48V6.5A

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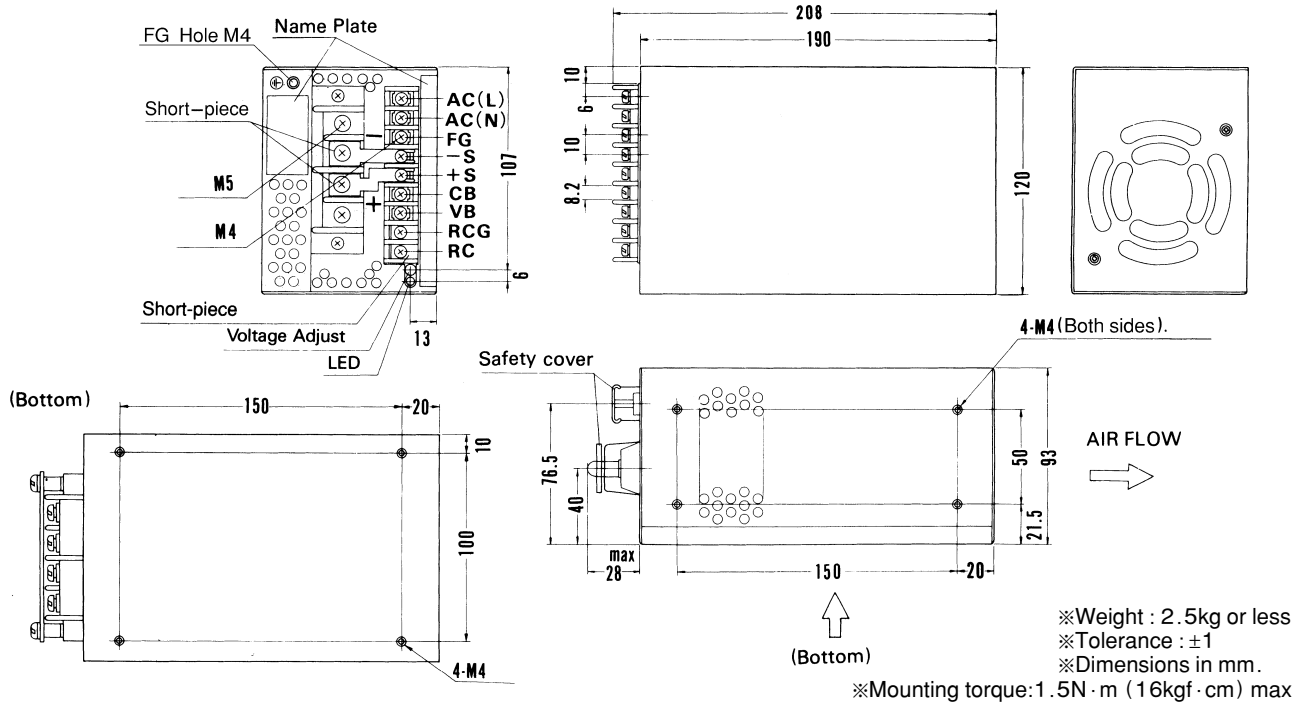
■EXTERNAL VIEW



※Weight : 2.5kg or less
※Tolerance : ±1
※Dimensions in mm.
※Mounting torque:1.5N·m (16kgf·cm) max

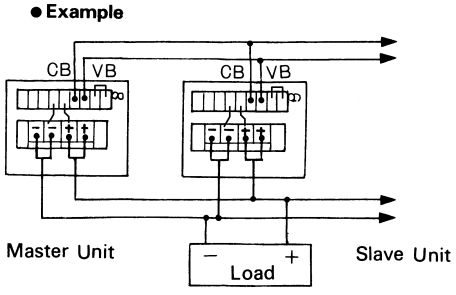
■Automatic Input Voltage Selector

Requires no manual adjusutment (wire or Short-pieces). P300 unit detects input voltage then select circuit to match applied input voltage.

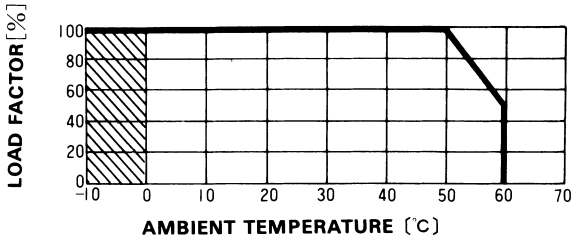
■Automatic Current sharing

- Output voltage is controlled by a potentiometer in master unit. Turn slave unit's potentiometer clock wise all the way to the end.
- Maximun output current can be determined by using the following formula: Total output current = 0.9 × (Rated current per unit) × Number of units paralleled
- Five units maximum for the parallel operation.

● Example



■DERATING CURVE



* The shadow indicates the region where different specifications for ripple noise should be used.