

# P.PA<sup>®</sup>

## Professional Power Amplifier



### **P.PA1 Level 2 1800W**

**8 Ohms Stereo Power 500W**  
**4 Ohms Stereo Power 800W**  
**2 Ohms Stereo Power 900W**  
**4 Ohms Bridged Mono Power 1800W**

**Distributed audio systems(optional)**  
**70 Volt Stereo 500W (50 Hz - 16 kHz, 0.5% THD)**  
**100 Volt Stereo 500W (50 Hz - 16 kHz, 0.5% THD)**



## **P.PA<sup>®</sup> Series**

The P.PA is a powerful power amplifier, ideal for use in high quality touring sound systems as well as in demanding permanent installations.

The P.PA Series are built exclusively in Csp's own USA manufacturing facility, with internal components selected for premium quality and proven durability. Each modular subassembly is pre-tested, and the assembled P.PA Series receives a rigorous hot room burn-in before thorough final checkout on precision test equipment.

### **Features**

Two channel stereo amplifier, include low-impedance and isolated 70-, and 100-volt(optional) outputs for distributed audio systems

Dual JFET input operational amplifiers

Low input bias and offset currents, high input impedance and fast slew rate

Only used ON Semiconductor Transistor

Front panel the strong points of the Circuit breaker/power switch

Cold rolling directional silicon steel power transformer  
85C 3000Hr Life validation Aluminum Capacitors  
High thermal mass extruded aluminum heat sinks  
100 CFM with twin speed temperature-actuated DC fans

Dual two-speed temperature fans with back-to-front air flow

SP DDP™ (Speaker Distortion Dynamic Protection)

OLP™ (Output Logic Protection)

3-pin female XLR connector and TRS 1/4" phone jack accept balanced

Stereo/Parallel/Bridged Mono mode selector switch

Ground lift switch

5-Way binding post output connectors, 4-Pole Speakon output connector

Recessed, stepped attenuators

Modular construction

2U rack unit, steel chassis, BSPC™ finish

5 year Warranty

Unpacked: 3.5" x 19" x 16" 33 lbs

Packed: 5" x 22.5" x 22" 37.5 lbs



**Only used ON Semiconductor Transistor**  
**P.PA Series Power Amplifier MADE IN USA.**

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### P.PA1 Level 2 SPECIFICATIONS

8 Ohms Stereo Power	500W
4 Ohms Stereo Power	800W
2 Ohms Stereo Power	900W
8 Ohms Bridged Mono Power	1600W
4 Ohms Bridged Mono Power	1800W
8 Ohms Output Voltage (each channel)	65V
Frequency Response (+0 / -0.3dB, 1W/8 Ohms)	20 Hz-20 kHz, -3dB @ 50kHz
Power Bandwidth (rated power at 4 Ohms, 1% THD+N)	20 Hz-20 kHz, +0/-0.2dB
Protection	OLP <sup>™</sup> , SP DDP <sup>™</sup>
THD+N (rated power at 4 Ohms, 1kHz)	<0.02%
SMPTE IMD (rated power at 8 Ohms, 60Hz & 7kHz)	<0.05%
Damping Factor (1000Hz at 8 Ohms)	500:1
Slew Rate:	>40V per micro second
Input CMRR (1kHz)	>60 dB
Input Sensitivity (rated power at 8 Ohms )	1.00V RMS
Voltage Gain	x40
Input Impedance (balanced/unbalanced)	>20k Ohms/10k Ohms
Hum and Noise ("A" weighted, full power, 4 Ohms)	> -110 dB
Crosstalk ("A" weighted, full power, 4 Ohms)	> -60 dB
Input Connectors (per channel)	Neutrik Combo
Output Connectors (per channel)	5-way output binding posts and Speakon connectors
Filter Storage	40000 uF / 10000 uF x 4 / 80 WDC 85C 3000Hr
Power Supply	120V, 60Hz; 220V, 50Hz; 240V 50/60Hz
Idle Current Draw 120V	0.8A
1/8 Power Curr. Draw (typical music, 120V/2 Ohms)	6.7A
1/3 Power Curr. Draw (continuous music, 120V/2 Ohms)	10A
Max Curr. Draw (circuit breaker rating, 120V/2 Ohms)	16.4A
Cooling	Dual two-speed temperature DC fans with rear to front cooling
Controls	Front panel: The strong points of the Circuit breaker/power switch Rear Panel: 2 attenuators, signal ground lift switch, mode select switch
LED Indicators	SP DDP <sup>™</sup> (per channel), Power On
Construction	1.5mm Steel chassis, 5mm alum. Front panel
Dimensions (Height x Width x Depth)	3.5" x 19" x 16"
Gross Weight, Net Weight	37.5 lbs, 33 lbs
Warranty	5 years, parts and labor

**Distributed audio systems(optional)**  
**70 Volt Stereo 500W (50 Hz - 16 kHz, 0.5% THD); 100 Volt Stereo 500W (50 Hz - 16 kHz, 0.5% THD)**

**The strong points of the Circuit breaker are:**  
 Thermal overload protection  
 Undervoltage release  
 Remote trip release  
 Mechanical lock-out latch  
 3 pole version  
 Rocker actuation  
 Push button actuation  
 Auxiliary contact.

**Use Extruded Aluminum**  
 High strength-to-weight ratio  
 High electrical conductivity  
 Good thermal properties

**P.PA amplifier used:**  
 DUAL JFET input operational amplifiers. They feature low input bias and offset currents, high input impedance and fast slew rate. The low harmonic distortion and low noise make them ideally suit for amplifiers with high fidelity and audio amplifier applications.

**FAST RECOVERY RECTIFIER.**  
 Voltage range 600 Volts, Current 6.0 Amperes, Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC method) 300 Amperes

### P.PA Series Power Amplifiers

P.PA1	P.PA2	P.PA3	P.PA4
800W @ 4 Ohms	1000W @ 4 Ohms	1200W @ 4 Ohms	2000W @ 4 Ohms
900W @ 2 Ohms	1200W @ 2 Ohms	2000W @ 2 Ohms	3000W @ 2 Ohms
1800W bridged at 4 Ohms	2400W bridged at 4 Ohms	4000W bridged at 4 Ohms	6000W bridged at 4 Ohms