

CPS8.5 – Special version 8x500W/8ohms – 4x1000W/16ohm

Amplifier at rated conditions, all channels driven, rated loads, unless otherwise specified.

Load Impedance	Low Impedance Mode			High Impedance Mode	
	“2 Ω⁽¹⁾”	4 Ω⁽²⁾	8 Ω⁽²⁾	70 V / 10 Ω⁽³⁾	100 V / 20 Ω⁽⁴⁾
Maximum Midband Output Power THD = 1%, 1 kHz, 8 ch. driven	500 W ⁽⁵⁾	500 W	250 W VLD: 500W	500 W	500 W
Rated Output Power THD < 0.3%, 20 Hz ⁽⁶⁾ ... 20 kHz, 8 ch. driven	450 W	450 W	225 W VLD: 450W	450 W	450 W
Maximum Bridged Output Power THD = 1%, 1 kHz	1000 W⁽⁵⁾	1000 W ⁽¹⁾	1000 W	1000 W ⁽⁷⁾	1000 W ⁽⁸⁾
Maximum RMS Voltage Swing THD = 1%, 1 kHz	63 V	45 V	45 V VLD: 63V	70 V	100 V
Power Bandwidth THD = 1%, ref. 1 kHz, half power @ rated load	10 Hz ... 25 kHz			50 Hz ... 25 kHz	
Voltage Gain , ref. 1 kHz	32 dB	32 dB	32 dB	33 dB	36 dB
Input Sensitivity rated power, 1 kHz	1.55 V (+6.0 dBu)	1,1 V (+3.0 dBu)	1,1 V (+3.0 dBu)	1,55 V (+6.0 dBu)	1,55 V (+6.0 dBu)
THD at rated output power, MBW = 80 kHz, 1 kHz, 8Ω Load	< 0.05%				
IMD-SMPTE 60 Hz, 7 kHz, 8Ω Load	< 0.05%				
DIM30 3,15 kHz, 15 kHz, 8Ω Load	< 0.02%				
Maximum Input Level	+22 dBu (9,76 Vrms)				
Crosstalk ref. 1 kHz, at rated output power	< -80 dB				
Frequency Response ref. 1 kHz, 8 Ω load	15 Hz ⁽⁶⁾ ... 30 kHz (±1 dB)				
Input Impedance active balanced	20 kΩ				
Damping Factor 1 kHz, 8 Ohm	> 240				
Slew Rate	28 V/μs				
Signal to Noise Ratio Amplifier A-weighted	103 dB	100 dB	100 dB	104 dB	106 dB
Output Noise A-weighted	< -65 dBu	< -65 dBu	< -65 dBu	< -65 dBu	< -64 dBu
Output Stage Topology	Class D				
Power Requirements (factory configured)	220 V – 240 V, 50 Hz – 60 Hz 120 V, 50 Hz - 60 Hz 100 V ⁽⁹⁾ , 50 Hz-60 Hz				
Power Consumption 1/8 maximum output power	930 W				
Protection	Audio limiters, High temperature, DC, HF, Short Circuit, Peak current limiters, Inrush current limiters, Turn-on delay, Mains Circuit Breaker Protection, Mains Over/Undervoltage Protection				
Cooling	Front-to-rear, temperature controlled fans				
Ambient Temperature Limits	+5 °C ... +40 °C (40 °F ... 105 °F)				
Safety Class	I				
Dimensions (W x H x D), mm	481 x 88.0 x 421 ⁽¹⁰⁾				
Weight	13,9 kg, (30,2 lbs)				
Optional: Rear-rackmount	D113223 (RMK-15)				

(1) **Output Mode 2 Ω modified to 8 Ω mode (500 W at 8 Ω, 250 W at 16 Ω, 125 W at 32 Ω)**

(2) Output Mode 4 Ω (500 W at 4 Ω, 250 W at 8 Ω)

(3) Output Mode 70 V

(4) Output Mode 100 V

(5) **1000 W in 16 Ω (Bridged mode in “2 Ω mode”, which is modified to 8 Ω mode)**

(6) 50Hz High Pass is automatically activated in 70V/100V output mode.

(7) 140V at 20Ω

(8) 200V at 40Ω

Due to the mains voltage situation in Japan the values for the maximum output power can be decreased by 15%.

Depth of the unit without rack ears (detachable): 380mm