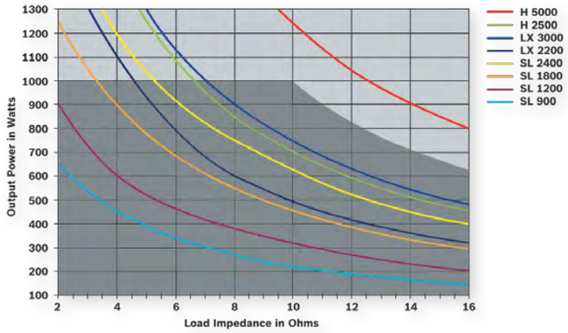
Contractor Precision Series amplifiers combine top-quality performance and reliability with innovative designs perfectly tailored to the needs of professional sound installation. Available in 2RU configurations of up to eight channels, CPS amps are compact and efficient to operate, with every detail thought through from the contractor's point of view. For fast installation and setup, each model features Phoenix-type input and output connectors, programmable power-on delay, remote power-on/off, rear-mounted attenuators and switchable high-pass filters.

For worry-free dependability, there's full protection against hazards, such as excessive heat, overloads, shorts, HF, DC, back EMF and inrush current. And for the ultimate in system control and supervision, the optional RCM-810 module enables the inclusion of CPS amps in IRIS-Net networks of up to 250 devices. Offering exceptional ease, flexibility and audio performance, CPS series is the ideal installation solution for cinema, club sound, commercial sound/life safety, and performance and sports venues.

UNIQUE FLEXIBILITY THROUGH VLD

The ability to switch individually the mode of each power amp channel helps the DSA multi-channel power amplifiers to achieve a degree of flexibility never before possible. In low impedance operation (2 Ω, 4 Ω, 8 Ω), each channel can drive up to four 8 Ω loudspeaker cabinets. The output channels can also be paired in bridged mode. Depending upon the application, each channel can be switched individually even in high-impedance (Hi-Z) mode in order to drive 70 Vrms or 100 Vrms loudspeaker lines directly without an output transformer (Direct Drive). The power output by the DSA multi-channel power amplifiers is (along with its thermal capacity) limited only by their maximum output voltage and maximum output current, which means they can drive any load between 2 and 10 Ω with their rated maximum outputs of 500 W and 1000 W respectively per channel.



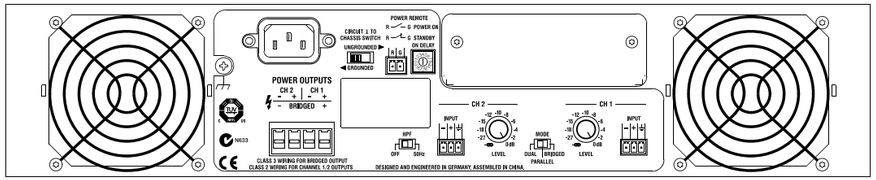
A corresponding encoder-circuit is provided on the rear panel. In addition, through VLD (Variable Load Drive) in combination with a RCM-810 remote control module, it is possible to define freely which output power should be made available at which load in the frame described above in the channel in question: e.g. Channel A = 350 W into 2.6 Ω; Channel B = 500 W into 8 Ω, etc.

CPS 2.4 — 650 W PER CHANNEL POWER AMPLIFIER

- Contractor-friendly performance and reliability
- 650 W per channel (2 Ω)
- Slot for optional RCM-810 module, allowing IRIS-Net control and monitoring
- Rear-mounted attenuators
- Switchable 50 Hz high-pass filter
- Class-AB design
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- Phoenix-type input and output connections
- Remote power-on/off contact
- Programmable power-on delay settings
- 3-stage front-to-rear fans

CPS 2.6 — 900 W PER CHANNEL POWER AMPLIFIER

- Contractor-friendly performance and reliability
- 900 W per channel (2 Ω)
- Slot for optional RCM-810 module, allowing IRIS-Net control and monitoring
- Rear-mounted attenuators
- Switchable 50 Hz high-pass filter
- Class-AB design
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- Phoenix-type input and output connections
- Remote power-on/off contact
- Programmable power-on delay settings
- 3-stage front-to-rear fans



CPS 2.4, CPS 2.6, CPS 2.9 and CPS.12 rear view

CPS 2.9 — 1250 W PER CHANNEL CLASS-H POWER AMPLIFIER

- Power and efficiency for installations
- Innovative Class-H design
- 1250 W per channel (2 Ω)
- Slot for optional RCM-810 module, allowing IRIS-Net control and monitoring
- Rear-mounted attenuators
- Switchable 50 Hz high-pass filter
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- Phoenix-type input and output connections
- Remote power-on/off contact
- Programmable power-on delay settings
- 3-stage front-to-rear fans

CPS 2.12 — 1800 W PER CHANNEL CLASS-H POWER AMPLIFIER

- Power and efficiency for installations
- Innovative Class-H design
- 1800 W per channel (2 Ω)
- Slot for optional RCM-810 module, allowing IRIS-Net control and monitoring
- Rear-mounted attenuators
- Switchable 50 Hz high-pass filter
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- Phoenix-type input and output connections
- Remote power-on/off contact
- Programmable power-on delay settings
- 3-stage front-to-rear fans

CPS 4.5 — 500 W PER CHANNEL 4-CHANNEL AMPLIFIER

- Four channels in one compact rack-efficient unit
- 500 W per channel
- 70/100 V operation for distributed systems
- Class-D design for optimum efficiency
- Slot for optional RCM-810 module, allowing IRIS-Net control and monitoring
- IRIS-Net selection of each channel's impedance (2–10 Ω in 0.1 Ω steps)
- Rear-mounted attenuators
- Switchable 50 Hz high-pass filter (Hi-Z mode)
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- Phoenix-type input and output connections
- Remote power-on/off contact
- Programmable power-on delay settings
- Front-to-rear fans

CPS 4.10 — 1000 W PER CHANNEL 4-CHANNEL AMPLIFIER

- Four channels in one compact rack-efficient unit
- 1000 W per channel
- 70/100 V operation for distributed systems
- Class-D design for optimum efficiency
- Slot for optional RCM-810 module, allowing IRIS-Net control and monitoring
- IRIS-Net selection of each channel's impedance (2–10 Ω in 0.1 Ω steps)
- Rear-mounted attenuators
- Switchable 50 Hz high-pass filter (Hi-Z mode)
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- Phoenix-type input and output connections
- Remote power-on/off contact
- Programmable power-on delay settings
- Front-to-rear fans

CPS 8.5 — 500 W PER CHANNEL 8-CHANNEL AMPLIFIER

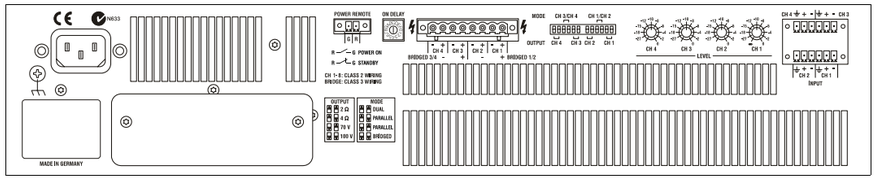
- Eight channels in one compact rack-efficient unit
- 500 W per channel
- 70/100 V operation for distributed systems
- Class-D design for optimum efficiency
- Slot for optional RCM-810 module, allowing IRIS-Net control and monitoring
- IRIS-Net selection of each channel's impedance (2–10 Ω in 0.1 Ω steps)
- Rear-mounted attenuators
- Switchable 50 Hz high-pass filter (Hi-Z mode)
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- Phoenix-type input and output connections
- Remote power-on/off contact
- Programmable power-on delay settings
- Front-to-rear fans

RCM-810 — IRIS-NET REMOTE CONTROL MODULE FOR CPS SERIES AMPLIFIERS

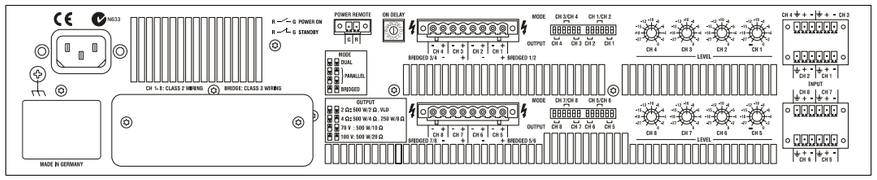
- Enable powerful control and supervision capabilities
- Integrate up to 100 devices in each remote control network, 250 with multiple networks
- Support for 2-, 4- and 8-channel CPS models
- Freely programmable control inputs and outputs
- Load-monitoring for each channel
- Variable Load Drive for independent channel impedance on 4- and 8-channel amps (2–10 Ω in 0.1 Ω steps)

	CPS 2.4			CPS 2.6			CPS 2.9			CPS 2.12		
Topology	Class-AB			Class-AB			Class-H			Class-H		
Impedance	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω
Continuous Output Power(1 kHz, THD 1%)	650 W	450 W	270 W	900 W	600 W	380 W	1250 W	900 W	550 W	1800 W	1200 W	750 W
Continuous Output Power(20–20,000 Hz, THD<0,2%)		400 W	200 W		500 W	250 W		800 W	400 W		1100 W	550 W
Maximum Bridged Output		1300 W	900 W		1800 W	1200 W		2800 W	1800 W		3600 W	2400 W
Amplifier Gain	32 dB			32 dB			32 dB			32 dB		
Frequency Response	10 Hz – 40 kHz (±1 dB)			10 Hz – 40 kHz (±1 dB)			10 Hz – 40 kHz (±1 dB)			10 Hz – 40 kHz (±1 dB)		
Total Harmonic Distortion	0.03%			0.03%			0.03%			0.03%		
Intermodulation Distortion (SMPTE)	0.1%			0.05%			0.1%			0.1%		
DIM 30	0.05%			0.02%			0.05%			0.05%		
Slew Rate	25 V/µs			26 V/µs			27 V/µs			30 V/µs		
Analog Inputs	2, electronically balanced, Phoenix-type			2, electronically balanced, Phoenix-type			2, electronically balanced, Phoenix-type			2, electronically balanced, Phoenix-type		
Input Impedance (Balanced)	20 kΩ			20 kΩ			20 kΩ			20 kΩ		
Input Sensitivity	2.2 dBu (1.0 V)			+3.1 dBu (1.11 Vrms)			+5.1 dBu (1.39 Vrms)			+6.6 dBu (1.66 Vrms)		
Maximum Input Voltage	+21 dBu (8.69 Vrms)			+21 dBu (8.69 Vrms)			+21 dBu (8.69 Vrms)			+21 dBu (8.69 Vrms)		
Crossover Type	Optional Modules			Optional Modules			Modular			Modular		
Network Control (IRIS-Net)	Optional (RCM-810 card)			Optional (RCM-810 card)			Optional (RCM-810 card)			Optional (RCM-810 card)		
CAN Bus Interface	Optional (RCM-810 card)			Optional (RCM-810 card)			Optional (RCM-810 card)			Optional (RCM-810 card)		
Variable Load Drive (VLD)	No			No			No			No		
Cooling	Front-to-rear, 3-stage fans			Front-to-rear, 3-stage fans			Front-to-rear, 3-stage fans			Front-to-rear, 3-stage fans		
Dimensions (H x W x D)	3.47″x 19″x 16.59″ (88.1 x 482.6 x 421.5 mm)			3.47″x 19″x 16.59″ (88.1 x 482.6 x 421.5 mm)			3.47″x 19″x 16.59″ (88.1 x 482.6 x 421.5 mm)			3.47″x 19″x 16.59″ (88.1 x 482.6 x 421.5 mm)		
Net Weight	27.8 lb (12.6 kg)			32.63 lb (14.8 kg)			35.94 lb (16.3 kg)			39.0 lb (17.7 kg)		

	CPS 4.5					CPS 4.10					CPS 8.5					
Topology	Class-D					Class-D					Class-D					
Impedance/Voltage	2 Ω	4 Ω	8 Ω	8 Ω VLD	70V/100V	2 Ω	4 Ω	8 Ω	8 Ω VLD	70V/100V	2 Ω	4 Ω	8 Ω	8 Ω VLD	70V/100V	
Continuous Power/Channel (1 kHz, THD 1%)	500 W	500 W	250 W	500 W	500 W	1000 W	1000 W	500 W	1000 W	1000 W	500 W	500 W	250 W	500 W	500 W	
Continuous Power/Channel (20-20,000 Hz, THD < 0.3%)	450 W	450 W	225 W	450 W	450 W	900 W	900 W	450 W	900 W	900 W	450 W	450 W	225 W	450 W	450 W	
Maximum Bridged Output		1000 W	1000 W		1000 W		2000 W	2000 W		2000 W		1000 W	1000 W		1000 W	
Amplifier Gain	32 dB (Lo-Z), 33 dB (70 V), 36 dB (100 V)					32 dB (Lo-Z), 33 dB (70 V), 36 dB (100 V)					32 dB (Lo-Z), 33 dB (70 V), 36 dB (100 V)					
Frequency Response	15 Hz – 30 kHz					15 Hz – 30 kHz					15 Hz – 30 kHz					
Signal-to-Noise Ratio, A-weighted (4 Ω)	100 dB					103 dB					100 dB					
Total Harmonic Distortion	0.05%					0.05%					0.05%					
Intermodulation Distortion (SMPTE)	0.05%					0.05%										
DIM 30	0.02%					0.02%					0.02%					
Slew Rate	28 V/µs					28 V/µs					28 V/µs					
Analog Inputs	4, electronically balanced, Phoenix-type					4, electronically balanced, Phoenix-type					8, electronically balanced, Phoenix-type					
Input Impedance (Balanced)	20 kΩ					20 kΩ					20 kΩ					
Input Sensitivity	0 dBu (.775 V)-2 Ω, +3 dBu (1.1 V)-4/8 Ω, +6 dBu (1.55) 70V/100V					0 dBu (.775 V)-2 Ω, +3 dBu (1.1 V)-4/8 Ω, +6 dBu (1.55) 70V/100V					0 dBu (.775 V)-2 Ω, +3 dBu (1.1 V)-4/8 Ω, +6 dBu (1.55) 70V/100V					
Maximum Input Voltage	+22 (9.76 Vrms)					+22 (9.76 Vrms)					+22 (9.76 Vrms)					
Network Control (IRIS-Net)	Optional (RCM-810 card)					Optional (RCM-810 card)					Optional (RCM-810 card)					
CAN Bus Interface	Optional (RCM-810 card)					Optional (RCM-810 card)					Optional (RCM-810 card)					
Variable Load Drive (VLD)	Yes					Yes					Yes					
Cooling	Front-to-rear, continuously variable fans					Front-to-rear, continuously variable fans					Front-to-rear, continuously variable fans					
Dimensions (H x W x D)	3.47″x 19″x 16.59″(88.1 x 482.6 x 421.5 mm)					3.47″x 19″x 16.59″(88.1 x 482.6 x 421.5 mm)					3.47″x 19″x 16.59″(88.1 x 482.6 x 421.5 mm)					
Net Weight	24.47 lb (11.1 kg)					24.47 lb (11.1 kg)					30.64 lb (13.9 kg)					



CPS 4.5 and CPS 4.10 rear view



CPS 8.5 rear view

Compact Precision amplifiers combine outstanding audio performance with the highest-possible reliability and safety to create an ideal high-power solution for touring and rentals. Incorporating an innovative switchmode power supply into Class-H technology, the CP series delivers clean headroom that is far above stated nominal output. This advanced design also results in improved performance-to-weight ratio for easier touring, reduced waste heat for closer rack spacing and reduced power consumption for enhanced energy efficiency. A complete set of protection circuitry guards people and equipment against hazardous conditions, and a rigid, robust chassis, built to the highest precision manufacturing standards, ensures dependable operation on even the most grueling tours. With exceptionally clean power and tour-friendly touches that facilitate fast, flexible setup, Compact Precision amplifiers fulfill even the most demanding requirements of pro audio touring.

CP3000S

1600 W PER CHANNEL CLASS-H POWER AMPLIFIER

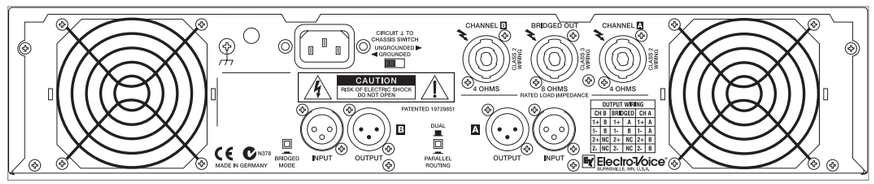
- Advanced high-efficiency Class-H design
- Ideal for demanding concerts and tours
- Exceptional dynamic headroom
- Rugged, compact and lightweight
- 1600 W per channel (2 Ω)
- XLR pass-though input connections
- Easy connection to biamped loudspeakers
- Switch mode power supply
- Built-in dynamic limiters
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- 3-stage front-to-rear fans

CP4000S

2100 W PER CHANNEL CLASS-H POWER AMPLIFIER

- High power with advanced Class-H efficiency
- Ideal for demanding concerts and tours
- Exceptional dynamic headroom
- Rugged, compact and lightweight
- 2100 W per channel (2 Ω)
- XLR pass-though input connections
- Easy connection to biamped loudspeakers
- Switch mode power supply
- Built-in dynamic limiters
- Complete protection: thermal, overload, shorts, HF, DC, back EMF and inrush current
- 3-stage front-to-rear fans

	CP3000S			CP4000S		
Topology	Class-H			Class-H		
Impedance	2 Ω	4 Ω	8 Ω	2 Ω	4 Ω	8 Ω
Maximum power (1k Hz; THD <1%)	1600 W	1100 W	600 W	2100 W	1500 W	900 W
Rated power (20 Hz–20,000 Hz; THD < 0.2%)		900 W	450 W		1200 W	600 W
Maximum bridged output (1,000 Hz; < 1% THD)		3200 W	2200 W		4200 W	3000 W
Frequency Response (-1dB, ref. 1kHz)	15 Hz – 40 kHz			15 Hz – 40 kHz		
Signal-to-noise ratio, A-weighted	107 dB			108 dB		
Total harmonic distortion	<0.05%			<0.05%		
Intermodulation distortion (SMPTE)	<0.02%			<0.02%		
Slew rate	35 V/µs			35 V/µs		
Input impedance (balanced)	20 kΩ			20 kΩ		
Crosstalk (at 1,000 Hz)	<-80 dB			<-80 dB		
Dimensions (W x H x D)	19.02″x 3.47″x 15.12″(483 x 88.1 x 384 mm)			19.02″x 3.47″x 15.12″(483 x 88.1 x 384 mm)		
Net weight	17.97 lb (8.15 kg)			19.18 lb (8.70 kg)		



CP3000S and CP4000S rear view