

CloudPower CP3004

4 x 3000W amplifier
with DSP and remote control

DATASHEET



Apex CloudPower CP3004 professional amplifiers feature built-in DSP and secure, remote control over the cloud.

Connect the amplifier easily to the WebUI on any HTML5 capable browser (MAC, PC, IOS, Android) with the built-in WiFi hotspot, or to a local area network via cat5 cable.

Multiple amplifiers can be controlled through the same WebUI using the trusted and comprehensive workflow of our IntelliWare software package.

Log in to Apex Cloud and remotely manage your amplifiers from your office. Save time and money by monitoring performance and adjusting functions without the need for a site visit.

Featuring high-end studio-grade analogue circuit designs, the Apex CloudPower series sets a new benchmark in powered system management and speaker processing design. The proprietary Class-D amplifier control loop features GlidePath direct drive technology and exceptionally low intermodulation figures resulting in wide stereo imaging.

Whether the application is a standalone system amplifier, or a comprehensive networked system with multiple amplifiers, the Apex CloudPower series is designed to provide the solution that our clients demand. With comprehensive loudspeaker preset capability, implementing CloudPower into your system couldn't be easier.

FEATURES

- Remote management over Apex Cloud
- All models can directly-drive low impedance or 70/100v loudspeakers
- High-efficiency, low idle power
- WebUI with built-in Wi-Fi Hotspot.
- Daylight viewable colour OLED display
- 4-channel platform
- 3000 Watts per channel
- Optional 4-input digital network card
- Unique internal streaming source supporting Spotify and Airplay



Operating conditions

Temperature	0° to 50° C, 10 to 60 % non-condensing
Storage temperature	-20° to 70° C
Safety / Compliance	CB Certificate

Amplification and power supply

Amplification class	Class D Glide Path technology
Power supply model	Universal switch mode power supplies with active PFC
Power Factor	> 0,9 above 1/2 P
Mains Rating	100-240V @ 50-60 Hz
Operating Voltage	90-260V
AC Mains connector	IEC C20 Inlet (20 A max) , CP1504 -3004 Powercon 32A

Audio Specifications

Frequency response	1Hz-22kHz
Distortion THD+N	0,05% @ P/2, 20Hz- 20 kHz, 22 kHz BW
Noise level (20 Hz - 20 kHz 8 ohm, A-weighted)	
Latency	
Phase response	±10 deg 20hz - 20kHz

DSP

Digital Signal Processor	64 bit fix point
I/O Routing	Flexible Routing matrix

User processing functions per channel

Gain:	-80 to +15dB, 0,1dB steps
Polarity:	normal / inverted
Delay:	0 to 250 ms (Shared between User and Group settings)
PEQ:	12 x PEQ. Each PEQ can be set to a choice of 16 filter types (1)
HP/LP filters:	Bessel , Butterworth and Linkwitz Riley with slopes from 6 to 48 dB/oct
Limiter:	Peak voltage, RMS voltage

Group processing functions

Six global processing groups overlays which can link any amplifier channel in the network

Gain:	-80 to +15dB, 0,1dB steps
Polarity:	normal / inverted
Delay:	0 to 250 ms (Shared between User and Group settings)
PEQ:	12 x PEQ. Each PEQ can be set to a choice of 16 filter types (1)

Speaker processing functions

Gain:	-80 to +15dB, 0,1dB steps
Polarity:	normal / inverted
Delay:	0 to 250 ms (Shared between User and Group settings)
PEQ:	12 x PEQ. Each PEQ can be set to a choice of 16 filter types (1)
HP/LP filters:	Bessel , Butterworth and Linkwitz Riley with slopes from 6 to 48 dB/oct
Limiter:	Peak voltage, RMS voltage
FIR filters:	1024 taps per channel
(1) Filter types:	Bell-Sym,Bell-Asym, Notch, Low-Shelf 6dB or 12dB, High-Shelf 6dB or 12dB, All-Pass 90° or 180°, High-Pass 6dB, or 12dB, High-Pass VariQ 12dB, Low-Pass 6dB or 12dB, Low-Pass Vari-Q 12dB, Band-Pass

Circuits protection

Mains and power supply	Under, over voltage, over current protection
Power outputs	DC, Overtemp, Overcurrent limiter, VHF
Load monitoring	Realtime load monitoring and internal pilot tone
Cooling	Cooling fans with temperature control speed

Inputs

Analog	4 balanced analog line inputs 4x 3-pin Phoenix
A/D conversion	32 bit
Input impedance	10 kOhm
Max. input level	21 dBu
Digital	Optional digital network card (DANTE or AVB Milan)
Internal Streaming source	Two channels internal streaming source supporting Spotify en Airplay

Remote control and monitoring

Network connection	Single port Ethernet Gigabit interface
Apex remote control software	CloudWare

Front panel indicators

Daylight viewable colour OLED display	Real time level, limit and fault indicators
---------------------------------------	---

CP3004

Total burst power (all channels driven)	12000
2 ohms	3000
4 ohms	3000
8 ohms	2000
16 ohms	1000
Hi-Z 70V	3000
Hi-Z 100V	3000

Max Output Power bridged mode

4 ohms	NA
8 ohms	NA
16 ohms	NA

Power and Thermal 115 V

Idle Power	120W
Idle Current Draw	1.2A
Idle Thermal loss	408 BTU/h
1/8 Power @ 4 Ohm Power	1600W
1/8 Power @ 4 Ohm Current Draw	14A
1/8 Power @ 4 Ohm Thermal loss	2729 BTU/h

Power and Thermal 230V

Idle Power	120W
Idle Current Draw	0.6A
Idle Thermal loss	408 BTU/h
1/8 Power @ 4 Ohm Power	1600W
1/8 Power @ 4 Ohm Current Draw	7A
1/8 Power @ 4 Ohm Thermal loss	2560 BTU/h

CP3004

Unit Dimensions	19" x 1,7" x 14,3" in
Shipping Dimensions	22" x 4,7" x 22,2" in
Unit Weight	10 kg - 22 Lbs
Shipping weight	11,5 Kg - 25 Lbs

