QP2125 QP2250 QP2375 QP2500

QP2000 Series - Quantum Power Amplifier with AFS (Class AB)



Improved

QP2000 Series is a range of Class AB power amplifiers from 125W to 500W 100V line designed for long-term PA performance. With built-in **Auto Fault Sensor (AFS)** and **standby changeover relay**, it features **automatic backup switching** during amplifier failure for uninterrupted operation., without the need for external changeover relay.

Model Variants

QP2000 Series	**QP2125**	125W 100V Line
	QP2250	250W 100V Line
	QP2375	375W 100V Line
	QP2500	500W 100V Line

Key Features

- Built-in **Auto Fault Sensor (AFS)** with **standby changeover relay** for automatic switching
- Digital controls for **volume, bass, treble, and fan speed** with LCD display
- Built in **In-rush current limiter**
- **RS485 for remote monitoring** and control via PC or **IP network** (with iPX5500)
- Protection such as **overload, thermal, short circuit, and fuse**
- **AC/DC operation** for uninterrupted performance during power failure

Packing Information

Carton size	550 (L) x 465 (W) x 180 (H) mm
Gross weight	**QP2125** : 13.15 kg **QP2250** : 14.15 kg **QP2375** : 17.40 kg **QP2500**: 19.20 kg
Qty/carton	1 unit per carton

Technical Specifications

QP2000 Series	QP2125	QP2250	QP2375	QP2500
Power rating	125W 100V line	250W 100V line	375W 100V line	500W 100V line
Operating voltage	220 - 240V AC or 24V DC backup supply			
Power consumption (240V AC)	294 VA (1.1A)	447 VA (1.7A)	749 VA (2.9A)	873 VA (3.3A)
Current consumption (24V DC)	5.9A	10.6A	16.7A	19.6A
Standby current (24V DC)	0.7A			0.9A
Input signal (sensitivity)	1V rms (±4 dBu) / 10k Ohm via Phoenix connectors			
Input gain controls	-40 to 40 dBu			
4 Ohm output voltage	22.3V	31.6V	38.7V	44.8V
Output impedance (max load)	80 Ohm	40 Ohm	27 Ohm	20 Ohm
Frequency response	120 - 15 kHz @ 1 kHz ±3 dB			
S/N ratio	>70 dB @ 1 kHz, 1V			
THD + Noise	<1%			
Protections & cut-off temperature	In-rush current limiter, thermal, short circuit, overload, AC & DC fuses, temperature cut-off at 75°C			
Cooling system	Auto temperature-controlled cooling fan with auto ON			
Indicators	LCD with temperature, audio level and address			
Data interface and baud rate	RS485, 19.2 kbps			
Fault sensing	Internal Pilot Tone: 20 kHz, detection at 15 - 20 secs, 10 secs interval			
Fault detection response	Standby amplifier relay activation, fault dry contact			
Dimensions (W x H x D)	482 x 88 x 335 mm			
Net weight	11.45 kg	12.45 kg	15.70 kg	17.65 kg