

## REPLACEMENT POWER AMPLIFIER

The SAP series amplifier is a cutting-edge Class D Power Amplifier designed with the latest state-of-the-art technology. With a range of built-in features, vibration testing can be easily performed with precision and accuracy. Its user-friendly operation and interactive microprocessor logic control system ensure optimal performance and compatibility with any make of electro-dynamic shaker.



### Features

- SAP series amplifiers are highly efficient, with efficiency rates of more than 93%, resulting in lower power consumption and heat generation than other amplifier types.
- The high efficiency and modular design of SAP series amplifiers allow them to be made smaller than traditional amplifiers, making them ideal for testing laboratories with limited space.
- SAP series amplifiers produce minimal distortion, with distortion levels no higher than 0.5%, allowing for highly accurate signal reproduction.
- SAP series amplifiers are cost-effective to produce, requiring fewer components and simpler manufacturing techniques than traditional amplifiers.
- With the ability to reproduce signals across a wide frequency range of up to 10kHz, SAP series amplifiers are well-suited for vibration testing applications.



System Model	SAP Power Amplifier
Power Range	Up to 1,000kVA
Signal-to-Noise Ratio	65
Total Harmonic Distortion (at rated output)	<0.5% from DC-500Hz, <1.0% from 500Hz-5000Hz
Output Current Crest Factor	3
DC Stability	< 0.05% at full output voltage with 10% line voltage change
Frequency Response	±3dB from DC-4,500Hz, ±1dB from 10-3,000Hz
Mid-Frequency Gain	130
Switching Frequency	150kHz
DC/AC Conversion Efficiency	93%
Input Power	380-480VAC, 50/60 Hz, 3 phase
Intelligent Operation	IGBT modularization Touchscreen human-machine interaction Multi-language compatibility Authorization management
Safety Protection	Multiple protective function Interlocking protection Force limiting function Dual protection of software and hardware
Advantaged Features	Digital debugging Low harmonic distortion Active current sharing Communication triggering
Easy Maintenance	System self-diagnosis Operation log Modular design Parallel operation mode