



## DSP AMPLIFIER

Make Audio System Easy

Some user prefer to make amplifier with DSP function in one same machine.No need to spare more time to install the extra audio processor.2 in 1 design make audio system more lighter ,more simple to operate.So we create the DSP series based on FP series amplifier.

### 2.1 DSP10000Q INTRODUCTION

- 4 Channel Class TD Switching power amplifier
- Create SUPER sound quality
- Control the sound effect by Touch on front 4" LED display screen
- Or control the sound effect by Computer
- Simple DSP software,no need install,easy operate it
- Bridge-mode operation for Touring Applications
- Comprehensive protection scheme
- Use Original Siemens high-quality capacitor 3300uf 200V
- Use Original ONSEMI transistor
- Neutrik XLR\*/Speakon connectors
- Extended heatsink to 94 mm



## 2.2 DSP20000Q Amplifier

- 4 Channel Class TD Switching power amplifier with DSP
- 4 x 4,000 Watts into 4 Ohms, 4 x 2,200 Watts into 8 Ohms
- Create SUPER sound quality
- Control the sound effect by Touch on front 4" LED display screen
- Or control the sound effect by Computer
- Simple DSP software,no need install,easy operate it
- Bridge-mode operation for Touring Applications
- Comprehensive protection scheme
- Use Original Siemens high quality capacitor 3300uf 200V
- Use Original ONSEMI transistor
- Neutrik XLR\*/Speakon connectors
- Extended heatsink board to 94 mm



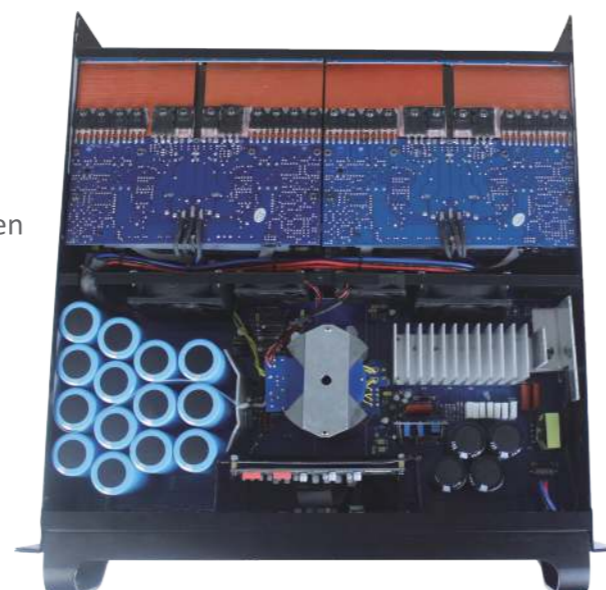
## 2.3 DSP22000Q Amplifier

- 4 Channel Class TD Switching power amplifier
- 4 x 4,400 Watts into 4 Ohms, 4 x 2,500 Watts into 8 Ohms
- Create SUPER sound quality,good for dual 18"/21"subwoofer
- Separately controllable on Gain
- Scalable Voltage Peak Limiter (VPL)
- Bridge-mode operation for Touring Applications
- Comprehensive protection scheme
- Use Original Siemens high quality capacitor 3300uf 200V
- Use Original ONSEMI type PNP power output transistor
- MJ15024G/MJ15025G
- Neutrik XLR\*/Speakon connectors
- Extended heatsink board to 94 mm



## 2.4 DSP12000Q Amplifier

- 4 Channel Class TD Switching power amplifier with DSP
- 4 x 2,800 Watts into 4 Ohms, 4 x 1,450 Watts into 8 Ohms
- Create SUPER sound quality
- Control the sound effect by Touch on front 4" LED display screen
- Or control the sound effect by Computer
- Simple DSP software,no need install,easy operate it
- Bridge-mode operation for Touring Applications
- Comprehensive protection scheme
- Use Original Siemens high quality capacitor 3300uf 200V
- Use Original ONSEMI transistor
- Neutrik XLR\*/Speakon connectors
- Extended heatsink board to 94 mm

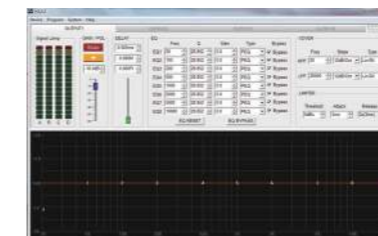


## 2.5 ADVANTAGE:



### Touch screen ①

Amplifier built-in dsp processor, 4 inch size led screen can touch, control the amplifier sound effect.



### Software control ②

DSP amplifier also can control by PC, through software can more precise adjustment dsp processor



### Multiple power amplifier controls ③

One PC can independent control several dsp amplifier at the same time.

## SPECIFICATIONS

Model	DSP10000Q	DSP12000Q	DSP20000Q	DSP22000Q
8Ω Stereo Power ( RMS )	1300WX4	1500WX4	2200WX4	2500WX4
4Ω Stereo Power ( RMS )	2100WX4	2800WX4	4000WX4	4650WX4
2Ω Stereo Power ( RMS )	2500WX4	3500WX4	4500WX4	7500WX4
8Ω Bridged Power ( RMS )	4200WX2	5600WX2	8000WX2	9500WX2
4Ω Bridged Power ( RMS )	5000WX2	7000WX2	10000WX2	15000WX2
Frequency Response(+o/-0.3dB,1W/8Ω)	20 Hz - 34 kHz			
THD 20 Hz - 20 kHz for 1 W	<0.1%			
Signal-to-Noise Ratio	>112 dBA			
Channel separation (Crosstalk) at 1 kHz	>70 dB			
Input Connectors (per channel)	3-pin XLR, electronically balanced			
Output Connectors (per channel)	Binding Posts 2-pole			
Class	TD			
TourClass Protection	ACL,IGM, AutoRamp, short circuit, DC voltage, turn-			
Operating voltage, 220 V / 110 V nominal	180-240 V / 90-130 V selectable			
Voltage Gain(dB)	23, 26, 29, 32, 35, 38, 41, 44 dB selectable			
Input impedance	20 kOhm			
Level adjustment (per ch.)	Front-panel potentiometer, 31 position detented from -inf to 0 dB			

# DIGITAL AMPLIFIER

1U Ultra-thin Model



## 3.1 D-SERIES AMPLIFIER CHARACTERISTIC

The D series are high-efficiency class D power amplifiers that use switching power supply technology. The energy efficiency ratio of the device exceeds 80% in daily use and exceeds 90% in the laboratory.

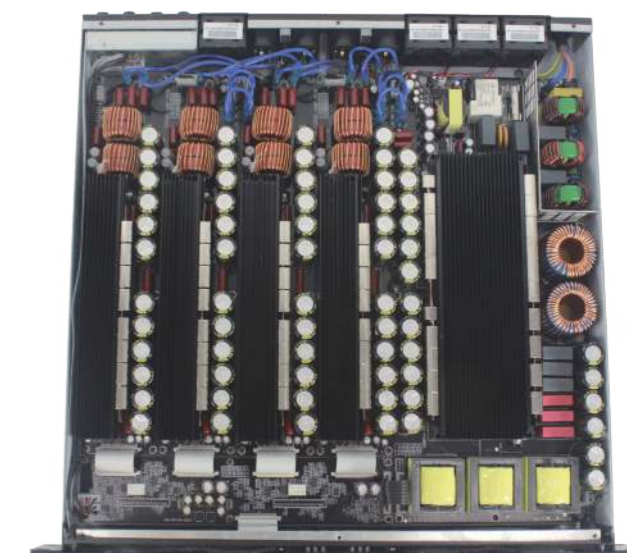
This series of power amplifiers uses active power factor correction technology, which can be used worldwide, and minimizes interference to the power grid and improves energy efficiency.

### FEATURE

- 2 ohms stable working
- Use NTC boot soft start
- With PFC automatic voltage regulator circuit.
- Each channel has independent overpressure and overheating.
- Load short circuit protection.
- Separately controllable on Gain
- Scalable Voltage Peak Limiter (VPL)
- The bridge-mode operation for Touring Applications
- Low working temperature, reliability will be improved obviously.
- Saving energy, reducing operating costs

## D4-2000 INTRODUCTION

- 4 Channel Class D Digital power amplifier
- Mini 1U size, convenient for Touring Applications
- 2Ω Stable
- 4 x 2000 Watts into 8 Ohms,
- 4 x 3400 Watts into 4 Ohms,
- 4 x 4760 Watts into 2 Ohms
- Precise and Reasonable circuit structure
- Bring supper reliable sound
- Bridge-mode operation



(D4-2000)  
(D2-3000)



## 3.2 K-SERIES AMPLIFIER CHARACTERISTIC

1U class D digital power amplifiers are popular among users at home and abroad because of their environmental protection, energy saving, small size and utilization rate of more than 97%. Products are sold in Europe, America and other countries.

K series amplifiers are 2-channels amplifiers with three models: K-800, K-1000 and K-1200. A perfect Sound reinforcement used in multiple ranges of home and paging applications such as home, theater, office, malls.

### FEATURE

- Advanced protection circuitry for short circuit, mismatched load, overheating and internal faults.
- Use NTC boot soft start.
- With PFC automatic voltage regulator circuit.
- Each channel has independent overpressure and overheating.
- load short-circuit protection.
- There is an automatic limiting function to prevent damage to the sounder.