

# Programmable DC Power Supply

## HPS Series



- Multiple voltage series, multiple models to choose: 300V/600V/1000V
- Single power range: 3kW/5kW/10kW/15kW
- Single voltage range: 0-1000V, current range: 0-60
- 30/15kW High power density
- Supports multiple power supplies in parallel, power up to 150kW
- High precision in measuring voltage and current
- Programmable change slope in output voltage and current
- Programmable sets of voltage and current sequences
- Remote voltage compensation, output DC-ON signal
- Perfect protection function OVP, OCP, OHP, fan failure
- Full color LCD display, digital keyboard, make operation more convenient
- Effectively prevent current reverse irrigation
- RS232/GPIB interface
- No-load fast discharge design

Model	HPS Serie	
AC input	≤3kW single phase 220V±10% > 3kW triple phase 380V±10%	
DC output	Voltage 0-1000V adjustable, current 0-375A, power 0-15kW adjustable	
CV accuracy	Source effect	≤0.01%Effective value(Rate of change in output current caused by ±10% changed in input voltage)
	Time drift	≤0.05%Effective value(Rate of change in output current caused by the power supply working continuously for 8 hours)
	Temperature drift	≤0.1%Effective value/°C(Rate of change in output voltage caused by changes in ambient temperature in the temperature range)
	Load effect	≤0.02%Effective value(Rate of change in output voltage caused when the output current of the power supply changes from zero to the rated value)
CC accuracy	Source effect	≤0.05%Effective value(Rate of change in output current caused by ±10% changed in input voltage)
	Time drift	≤0.5%Effective value(Rate of change in output current caused by the power supply working continuously for 8 hours)
	Temperature drift	≤0.2%Effective value/°C(Rate of change in output current caused by changes in ambient temperature in the temperature range)
	Load effect	≤0.1%Effective value(Rate of change in output current caused when the output current of the power supply changes from zero to the rated value)
Output ripple	CV status	≤25mV ( RMS ) (Effect value)
	CC status	≤60mA ( RMS ) (Effect value)
Output display	Voltage accuracy	0.1%+0.1%F.S.
	Current accuracy	0.1%+0.2%F.S.
Voltage set	Digital keyboard +knob Resolution:1.7mV	
Current set	Digital keyboard +knob Resolution:0.9mA	
Transient response	<20ms	
CV/C switch	<1ms	
OVP	Built-in OVP, protection value is +10% of rated value, turn off the output after protection	
OCP	Over load, short circuit is turn to CC mode output	
OTP	Built-in OTP, protection value is 85°C±5%(Radiator temperature), turn off the output after protection	
Output polarity	Output positive(+), negative(-)	
Cooling mode	Forced air cooling	
Operation environment	Indoor using design, temperature:0°C~40°C; humidity:10%~85%RH	
Storage environment	Temperature:-20°C~70°C; humidity:10%~90%RH	
Communication Interface	RS232/GPIB(Optional)	

## ≤3kW series product selection table

Model	Voltage	Current	Power
HPS-4080A	0-40.000V	0-80.000A	1200W
HPS-6050A	0-60.000V	0-50.000A	1200W
HPS-8030A	0-80.000V	0-30.000A	1200W
HPS-10025A	0-100.00V	0-25.000A	1200W
HPS-16010A	0-160.00V	0-10.000A	1200W
HPS-40100B	0-40.000V	0-100.00A	1800W
HPS-8040B	0-80.000V	0-40.000A	1800W
HPS-10030B	0-100.00V	0-30.000A	1800W
HPS-16015B	0-160.00V	0-15.000A	1800W
HPS-30010B	0-300.00V	0-10.000A	1800W
HPS-6005B	0-600.000V	0-5.0000A	1800W
HPS-40120C	0-40.000V	0-120.00A	2400W
HPS-8050C	0-80.000V	0-50.000A	2400W
HPS-10040C	0-100.00V	0-40.000A	2400W
HPS-16020C	0-160.00V	0-20.000A	2400W
HPS-30015C	0-300.00V	0-15.000A	2400W
HPS-6008C	0-600.00V	0-8.0000A	2400W
HPS-40120D	0-40.000V	0-120.00A	3000W
HPS-8060D	0-80.000V	0-60.000A	3000W
HPS-10050D	0-100.00V	0-50.000A	3000W
HPS-16030D	0-160.00V	0-30.000A	3000W
HPS-30020D	0-300.00V	0-20.000A	3000W
HPS-60010D	0-600.00V	0-10.000A	3000W

## 5kW series product selection table (Three-phase input 380V)

Model	Voltage	Current	Power
HPS-32020E	0-320.00V	0-20.000A	5000W
HPS-45015E	0-450.00V	0-15.000A	5000W
HPS-60010E	0-600.00V	0-10.000A	5000W
HPS-80010E	0-800.00V	0-10.000A	5000W
HPS-10008E	0-1000.0V	0-8.0000A	5000W

## 10kW series product selection table (Three-phase input 380V)

Model	Voltage	Current	Power
HPS-30040F	0-300.00V	0-40.000A	10000W
HPS-45025F	0-450.00V	0-25.000A	10000W
HPS-60020F	0-600.00V	0-20.000A	10000W
HPS-80015F	0-800.00V	0-15.000A	10000W
HPS-100016F	0-1000.0V	0-16.000A	10000W

## 15kW series product selection table (Three-phase input 380V)

Model	Voltage	Current	Power
HPS-30060G	0-300.00V	0-60.000A	15000W
HPS-45030G	0-450.00V	0-30.000A	15000W
HPS-60030G	0-600.00V	0-30.000A	15000W
HPS-80020G	0-800.00V	0-20.000A	15000W
HPS-100020G	0-1000.0V	0-20.000A	15000W