



## KDCS Series High Precision DC Power Supply

- Constant voltage mode ●
- Flexible work step setting: Step/Gradient Mode ●
- Editable protection parameters: ●
- Overvoltage/Overcurrent point ●
- Voltage compensation ●
- External emergency stop ●

### Production Introduction

KDCS Series High Precision DC Power Supply is characterized by its wide power output, high precision, and high dynamic response features. By adopting the two-stage power conversion structure, phase-shifting 12-pulse diode rectifier, and BUCK circuit, the product can be used in high-voltage/power conditions without reverse energy.

### Product Advantages

- Wide voltage/current output
- High precision & resolution
- 10ms High dynamic response: 10ms
- Multi-filtering solutions
- Standard communication interfaces: RS485/CAN/LAN

### HEFEI KEWELL POWER SYSTEM CO., Ltd.

China Headquarter    Taiwan Branch    Korea Branch    Germany Branch    sales2@kewell.com.cn  
 We are constantly searching for international business partners!    Visit our web: www.kewelltest.com



### Specifications & Parameters

Models	Rated Power [kW]	Rated Current* [A]	Rated Voltage* [V]	Voltage Range* [V]
KDCS-10-900	10	100	100	48-900
KDCS-20-700	20	100	200	48-700
KDCS-20-900	20	200	100	48-900
KDCS-40-700	40	130	308	48-700
KDCS-80-1000	80	267	300	50-1000
KDCS-100-800	100	333	300	24-800
KDCS-150-600	150	500	300	12-600

Note\*: Rated current/voltage, and voltage range can be customized.

Input Characteristics	
Phase	3φ3W+PE
Voltage	380V±15%
Frequency	50Hz±5Hz

Safety & Ambient Conditions	
Insulation Resistance	≥20MΩ (500Vdc)
Withstand Voltage	3000Vdc (60s, no arcing/breakdown)
Ground Resistance	≤0.1Ω
Protection Level	IP21 (indoor)
Cooling	Fan cooling
Ambient Temperature	-10~40°C
Relative Humidity	0-90%RH (Non-condensing at 25°C)
Altitude	≤2000m

Output Characteristics	
Voltage Precision	± (0.1% FS+5dgt)
Voltage Resolution	± (0.1% FS+5dgt)
Response Time	≤10ms
Voltage Ripple (rms)	≤0.2% FS
Load Regulation	0.1% FS
Voltage Resolution	0.001V
Current Resolution	0.001A
Power Resolution	0.001kW
Protection	OVP/OCP/OTP/Emergency stop etc.

Communication Interfaces	
Local Interface	LCD
Remote Comms	RS485/LAN/CAN
Others	External emergency stop/ Fault signal/Voltage compensation

NOTE: The withstand voltage listed above applies to 800V/1000V/1200V products only; For those of 1500V, the withstand voltage is designed according to 3200Vdc; For those of 2000V, the withstand voltage is designed according to 3700Vdc.

### Software Interfaces

Flexible setting of work steps: General/Step/Gradient Mode



General Mode



Gradient Mode

