



## C3000H Series Programmable DC Power Source



- DC power source
- IV simulation
- Static & dynamic MPPT testing
- Support parallel operation
- Support multi-work-step configuration
- Shadowed condition simulation

### Production Introduction

C3000H series is a high performance, programmable DC power supply developed by Kewell. It supports high DC voltage output with IV simulation. IV simulation adopts self-developed core control strategy to ensure high-precision output and high dynamic characteristics. The series is mainly used to test the MPPT efficiency of inverters, overcoming the challenge in testing and tracking the performance of high-power PV inverters.

### Product Advantages

- Voltage output range: 0-1800V (adjustable)
- Current output range: 0-35A (adjustable)
- Support multi-parallel operation of 10 machines above, with power output up to 150kW.
- 3U cabinet design for easy installation
- Maximum efficiency reaches to 95%.
- Comprehensive protection including OV/OC/OPP/OTP/OPP
- Low ripple, low noise
- High setting resolution, high precision
- Standard communication interfaces

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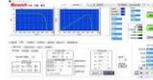


### Specifications

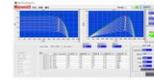
Model		C3000H-15K +1000-0035	C3000H-15K +1500-0035	C3000H-15K +1500-0035-F0	C3000H-15K +1800-0035	C3000H-15K +1800-0035-F0
Rated Range	Voltage	0 ~ 1000V	0 ~ 1500V	0 ~ 1500V	0 ~ 1800V	0 ~ 1800V
	Current		0-35A	0-35A		
Load Regulation	Voltage		±0.02%+20mV	±0.02%+20mV		
	Current		±0.05%+20mA	±0.05%+20mA		
Line Regulation	Voltage		±0.01%+150mV	±0.01%+150mV		
	Current		±0.05%+20mA	±0.05%+20mA		
Setting Resolution	Voltage		0.1V	0.1V		
	Current		0.01A	0.01A		
Display Resolution	Voltage		0.001V	0.001V		
	Current		0.001A	0.001A		
Setting Precision	Voltage		0.05% S, ±5µgt	0.05% S, ±5µgt		
	Current		0.2% S, ±5µgt	0.2% S, ±5µgt		
Display Precision	Voltage		0.05% S, ±5µgt	0.05% S, ±5µgt		
	Current		0.2% S, ±5µgt	0.2% S, ±5µgt		
Ripple	Voltage		≤400mV (rms) & 2.4V (p-p)	≤400mV (rms) & 2.4V (p-p)		
	Current		±26mA (rms)	±26mA (rms)		
Temperature Coefficient of Constant Voltage & Current	Voltage		0.02%/°C	0.02%/°C		
	Current		0.001%/ms-10V/ms	0.001%/ms-10V/ms		
Rise Slow Rate (no load)	Voltage		0.001V/ms-10V/ms	0.001V/ms-10V/ms		
Rise Slow Rate (CR full load)	Voltage		0.001V/ms-10V/ms	0.001V/ms-10V/ms		
Fall Time (no load)	Voltage		≤2s	≤2s		
Dynamic Response Time	Voltage		≤1.5ms	≤1.5ms		
AC Input	Voltage		342VAC-462VAC	342VAC-462VAC		
	Frequency		45Hz ~ 65Hz	45Hz ~ 65Hz		
Efficiency			95%	95%		
	PF		0.99	0.99		
Max. Input Current			25A	25A		
Max. Apparent Power			17kVA	17kVA		
Storage Temperature			-10°C-70°C	-10°C-70°C		
Protection			OV/OC/OPP/OTP etc.	OV/OC/OPP/OTP etc.		
Communication Interfaces			RS485/LAN/GPIB/CAN	RS485/LAN/GPIB/CAN		
Other Interfaces			Remote sampling interface:RJ-45	Remote sampling interface:RJ-45		
Ambient Temperature			5-40°C	5-40°C		
Dimensions			736mm (D) × 445mm (W) × 132.5mm (H)	736mm (D) × 445mm (W) × 132.5mm (H)		
Weight			40kg	40kg		
<b>IV Curve Setting</b>						
Range of Open-circuit Voltage		0 ~ 1000V	0 ~ 1500V	0 ~ 1500V	0 ~ 1800V	0 ~ 1800V
Range of Short-circuit Current			0-35A	0-35A		
Range of Fill Factor Simulation			0.4-0.95	0.4-0.95		
Solar Panel Types			Monocrystalline silicon/Polycrystalline silicon/Thin film cell			
IV Curve			Editable			
IV Curve Update Rate			100ms-1s (editable)			
Point Count per Single Curve			≤4000			

### Waveform

Support DC power source, IV simulation and static/dynamic MPPT testing.



IV/VPV curve of static MPPT testing



IV/VPV curve of dynamic MPPT testing

