

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 OVP/OCP/OTP/OPP

Low ripple, low noise

High setting resolution, high precision

Standard communication interfaces

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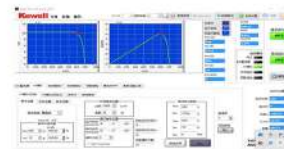
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Specifications

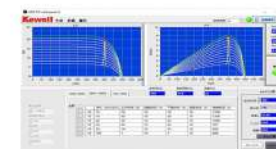
Model		C3000H-15K-1000-0035	C3000H-15K-1500-0035	C3000H-15K-1500-0035-F0	C3000H-15K-1800-0035	C3000H-15K-1800-0035-F0
Rated Range	Voltage	0 ~ 1000V	0 ~ 1500V		0 ~ 1800V	
	Current	0~35A				
	Power	0~15kW				
Load Regulation	Voltage	≤0.02%+300mV				
	Current	≤0.05%+20mA				
Line Regulation	Voltage	≤0.01%+150mV				
	Current	≤0.05%+20mA				
Setting Resolution	Voltage	0.1V				
	Current	0.01A				
Display Resolution	Voltage	0.001V				
	Current	0.001A				
Setting Precision	Voltage	0.05%F.S.+5dgt				
	Current	0.2%F.S.+5dgt				
Display Precision	Voltage	0.05%F.S.+5dgt				
	Current	0.2%F.S.+5dgt				
Ripple	Voltage	≤400mV (rms) & 2.4V (p-p)				
	Current	≤26mA (rms)				
Temperature Coefficient of Constant Voltage & Current	Voltage	0.03%/°C				
Rise Slew Rate (no load)	Voltage	0.001V/ms~10V/ms				
Rise Slew Rate (CR full load)	Voltage	0.001V/ms~10V/ms				
Fall Time (no load)	Voltage	≤2s				
Dynamic Response Time		≤1.5ms				
AC Input	Voltage	342VAC~462VAC				
	Frequency	45Hz ~ 65Hz				
Efficiency		95%				
PF		0.99				
Max. Input Current		26A				
Max. Apparent Power		17kVA				
Storage Temperature		-10°C~70°C				
Protection		OVP/OCP/OPP/OTP etc.				
Communication Interfaces		RS485/LAN/USB/CAN				
Other Interfaces		Remote sampling interface/RJ-45				
Ambient Temperature		0~40°C				
Dimensions		738mm (D) × 445mm (W) × 132.5mm (H)				
Weight		46kg				
IV Curve Setting						
Range of Open-circuit Voltage		0 ~ 1000V	0 ~ 1500V	0 ~ 1800V		
Range of Short-circuit Current		0~35A				
Range of Fill Factor Simulation		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/PV curve of static MPPT testing



IV/PV curve of dynamic MPPT testing