

# HIGH PERFORMANCE POWER SUPPLY

C3000 SERIES



Low voltage version

The C3000 Series is a high-precision programmable DC power supply boasting wide current range, high dynamic performance, and ultra-high power density. Featuring auto-range output and flexible voltage & current combinations, the C3000 Series is widely used in industries such as PV, EV, and aviation.

## Features

- | High power density: 15kW in 3U

| Power output range: 0 ~ 15kW

| Current output range: 0 ~ 600A

| Voltage output range: 0 ~ 100V

| Parallel connection: up to 10 units

| AC voltage input: 342VAC ~ 528VAC
- | PV simulation: Static MPPT, Multi-IV, EN50530, etc.

| Custom waveforms: triangle, square, and sine

| Automotive power curve: ISO16750-2, LV123, DIN40839, etc.

| RS232/LAN/USB communication interface

| Protections: OVP, OCP, OTP, OPP, etc.

| Remote voltage compensation

## Model Selection

Model	Voltage	Current	Power	Resolution	Accuracy (Voltage/Current)	Size
Normal						
C3000NG-10K-0100-0400	100V	400A	10kW	0.01V/0.01A	≤0.02%F.S./≤0.1% F.S.	3U
C3000NG-15K-0100-0600	100V	600A	15kW	0.01V/0.01A	≤0.02%F.S./≤0.1% F.S.	3U
Pro						
C3000PG-10K-0100-0400	100V	400A	10kW	0.01V/0.01A	≤0.02%F.S./≤0.1% F.S.	3U
C3000PG-15K-0100-0600	100V	600A	15kW	0.01V/0.01A	≤0.02%F.S./≤0.1% F.S.	3U

- Normal

Fundamental, Cost-effective
- Pro

Fully-featured, Multi-scenario

Version	Normal	Pro
Features		
DC power supply	★	★
IV simulation	-	★
Automotive power curve	-	★

Note: "★" means Yes; "-" means not available.

## Product Applications

- | Testing grid-connected PV inverters

| Testing motor controllers

| Testing DCDC converters

| Power semiconductor devices

| Automotive electronic components testing
- | Air compressors

| Military industry, avionics

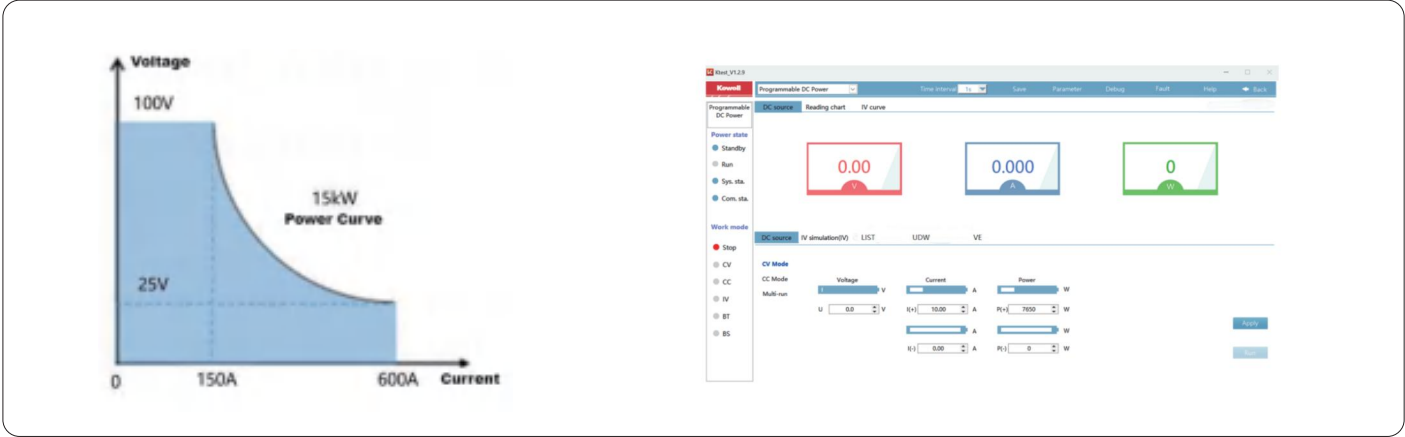
| Telecom power

| DC contactor test

Product Functions

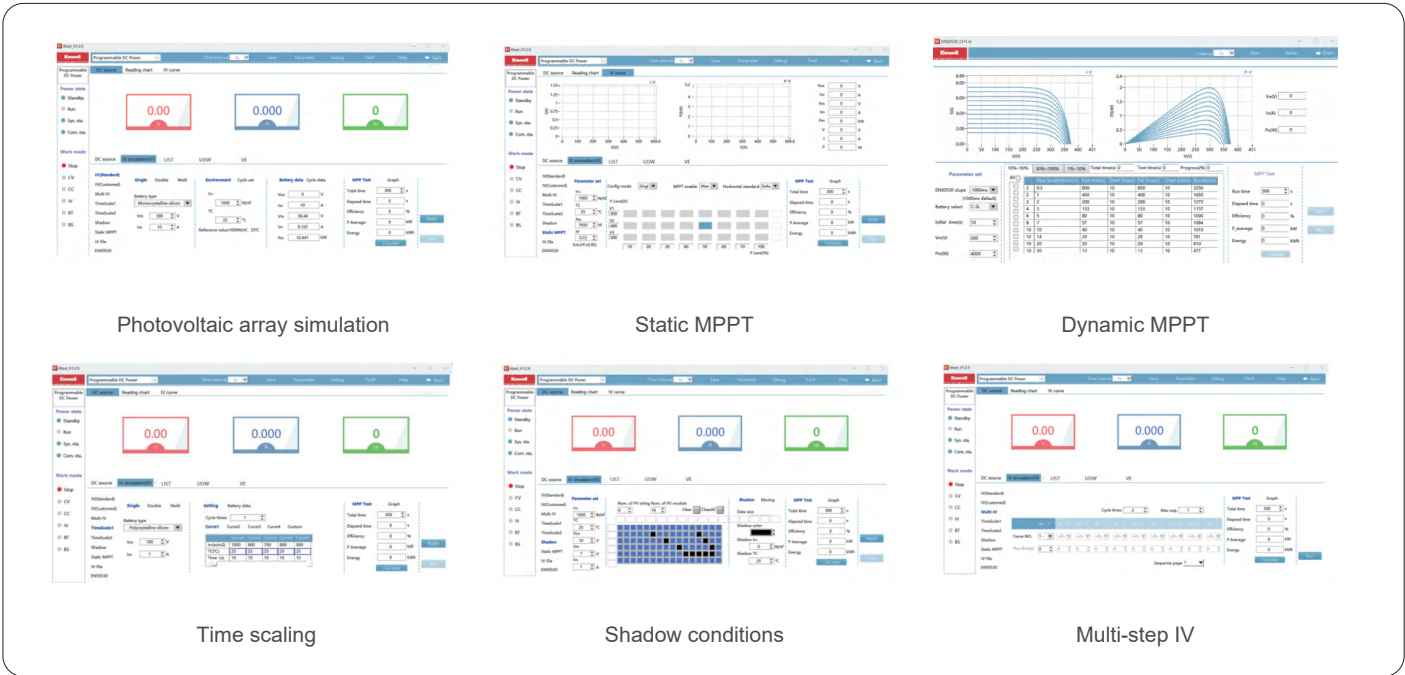
DC Power Supply

Steady auto ranging output of 0-100V. The maximum power output for a single machine can reach 15kW. C3000 supports up to 999 editable work steps, and work steps can be set in cycles.



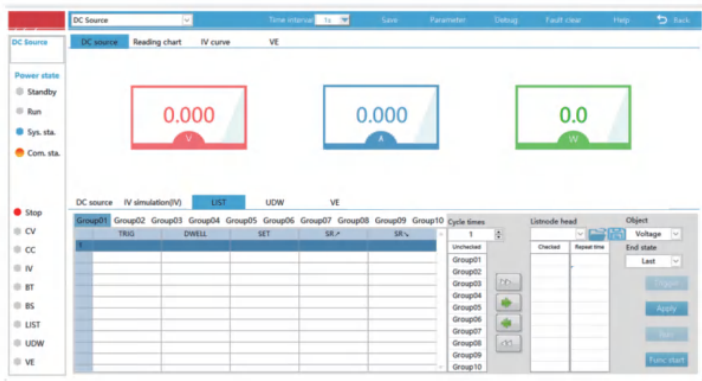
IV Simulation

The C3000 Series has a variety of IV simulation capabilities, which make the PV test closer to the real-world conditions. These include single point, double-point, multi-point settings, as well as static and dynamic MPPT, time scaling, shadow conditions, and multi-step IV function.



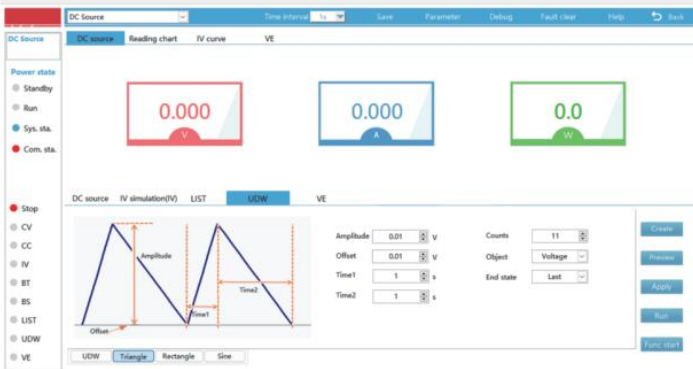
List Mode

List mode supports file programming for 10 groups, each having up to 10 arrays to be edited. Single step time can be set to 1ms at minimum.



Custom Waveforms

Built-in triangle, square and sine waveforms.



Automotive Power Curve

Built-in industry standards such as ISO16750-2, LV123, DIN40839, etc., one click to call.



C3000 SERIES HIGH PERFORMANCE POWER SUPPLY

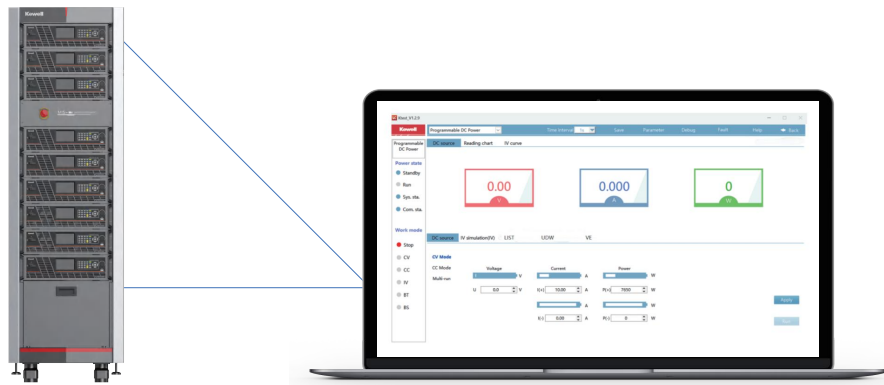
Product Highlights

Ultra-high Efficiency



Max. power efficiency: 92%

Flexible Paralleling



The maximum power of the C3000 Series single machine is 15kW, and through the flexible parallel connection of up to 10 devices, the power output can reach 150kW. One computer can control up to 24 devices at the same time.

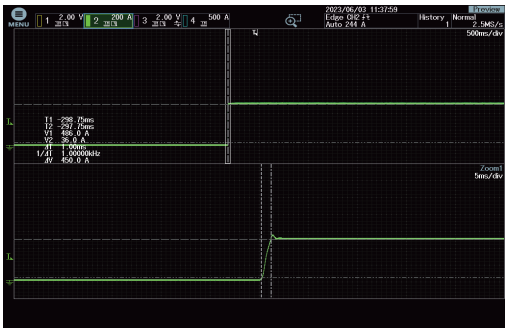
Super Dynamic Performance

● High Voltage/Current accuracy

The C3000PG Series accuracy can reach 0.02% F.S. and 0.1% F.S. with respect to voltage and current, respectively.

● Rapid dynamic response

The current slope is up to 450A/ms. Microsecond response for sudden loading/unloading, with response time as short as 500us.



Parallel Cabinet



Model	Number	Dimensions (W*D*H)	Weight(Cabinet alone)
HK-15U	2~3 devices	610*1026*1006mm	130kg
HK-29U	4~6 devices	610*1026*1554mm	220kg
HK-42U	7~9 devices	610*1026*1999mm	280kg

Standard Accessories

Handles

Parallel Cable

Ethernet Cable(3m)

USB Stick(32G)<sup>①</sup>

DC protective cover

AC protective cover

Parallel Communication Module

Note: ① The USB stick contains the software package (license will be provided by Kewell free of charge).



# HIGH PERFORMANCE POWER SUPPLY

C3000 SERIES



High voltage version

The C3000 Series is a high-precision programmable DC power supply boasting wide voltage range, high dynamic performance, and ultra-high power density. Featuring auto-range output and flexible voltage & current combinations, the C3000 Series is widely used in industries such as PV, EV, and aviation.

## Features

- High power density design: 30kW in 3U

Power output range: 0 ~ 30kW

Current output range: 0 ~ 180A

Voltage output range: 0 ~ 2000V

Parallel connection: up to 20 units
- AC voltage input: 342VAC ~ 528VAC

PV simulation: Static MPPT, Multi-IV, EN50530, etc.

RS485/CAN/LAN/USB communication interface

Protections: OVP, OCP, OTP, OPP, etc.

## Model Selection

Model	Voltage	Current	Power	Resolution	Accuracy (Voltage/Current)	Size
Normal						
C3000NG-7K5-0750-0060	750V	60A	7.5kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000NG-15K-0750-0120	750V	120A	15kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000NG-30K-0750-0180	750V	180A	30kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000NG-15K-1500-0060	1500V	60A	15kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000NG-21K-2000-0060	2000V	60A	21kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000NG-30K-2000-0060	2000V	60A	30kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
Pro						
C3000PG-7K5-0750-0060	750V	60A	7.5kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000PG-15K-0750-0120	750V	120A	15kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000PG-30K-0750-0180	750V	180A	30kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000PG-15K-1500-0060	1500V	60A	15kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000PG-21K-2000-0060	2000V	60A	21kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U
C3000PG-30K-2000-0060	2000V	60A	30kW	0.01V/0.01A	≤0.05%F.S./≤0.1% F.S.	3U

Normal

Fundamental, Cost-effective

Pro

Fully-featured, Multi-scenario

Version	Normal	Pro
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DC power supply	★	★
IV simulation	-	★

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## Product Applications

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Testing motor controllers

Testing DCDC converters

Power semiconductor devices
- Military industry, avionics

Telecom power

High voltage contactors

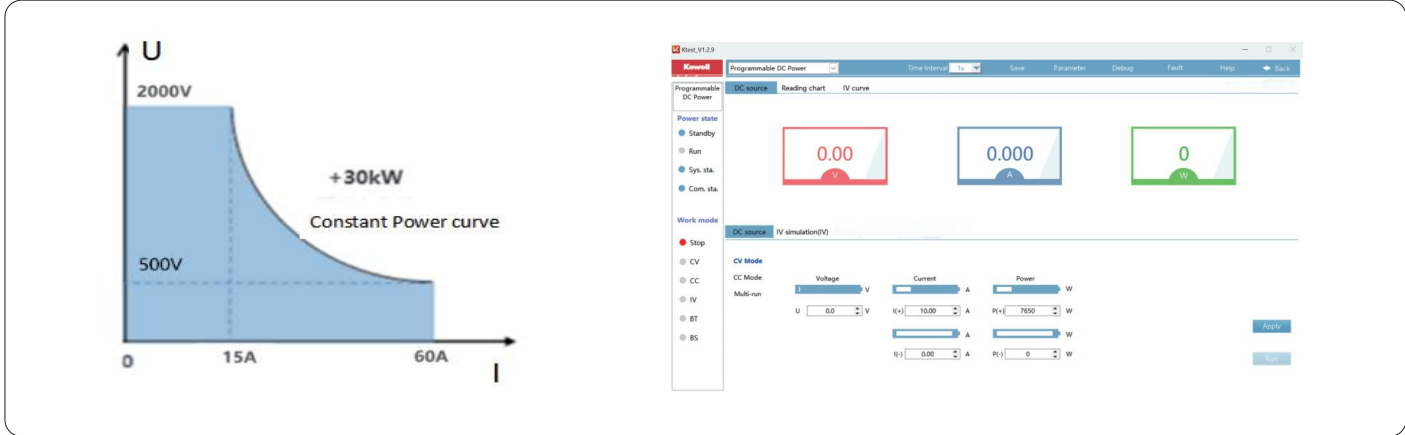
Air compressors

# C3000 SERIES HIGH PERFORMANCE POWER SUPPLY

## Product Functions

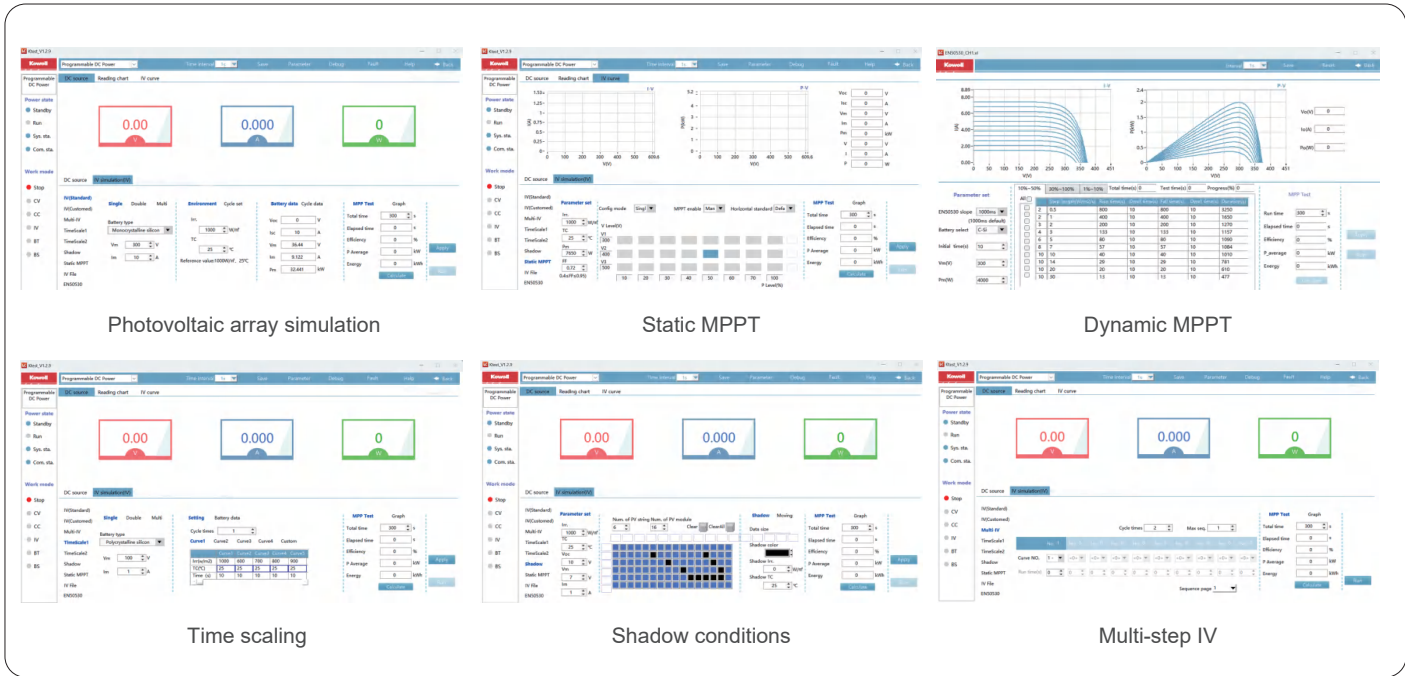
### DC Power Supply

Steady auto ranging output of 0-2000V. The maximum power output for a single machine can reach 30kW. C3000 supports up to 999 editable work steps, and work steps can be set in cycles.



### IV Simulation

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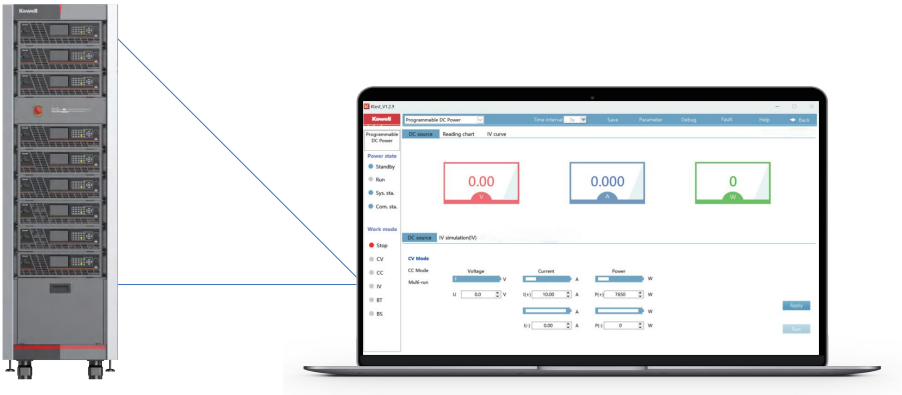


## Product Highlights

### Ultra-high Efficiency



### Flexible Paralleling



The maximum power of the C3000 Series single machine is 30kW, and through the flexible parallel connection of up to 20 devices, the power output can reach 600kW. One computer can control up to 12 devices at the same time.

Product Highlights

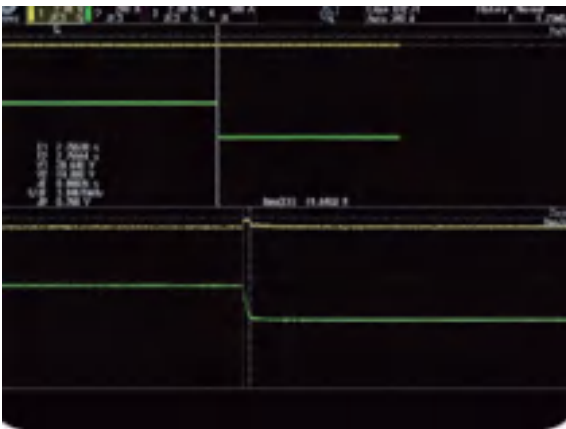
Super Dynamic Performance

● High Voltage/Current accuracy

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● Rapid dynamic response

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Standard Accessories

Handles

Ethernet Cable(0.8m)

Ethernet Cable(0.25m)

USB Stick(32G)<sup>①</sup>

Ethernet Cable(3m)

DC protective cover

AC protective cover

Note: ① The USB stick contains the software package (license will be provided by Kewell free of charge).