

SolarGrid Energy Solutions

Programmable power supply



Overview

A programmable power supply delivers precise, adjustable voltage and current with automated control for circuit testing, validation, and production. What is a programmable power supply?

By mimicking real battery discharge profiles, a programmable power supply enables engineers to test battery-powered devices under controlled conditions. This ensures accurate performance evaluation for IoT devices, wearables, and portable electronics. Designing a reliable power supply requires careful planning, precise testing, and the right tools.

What is a programmable power supply (PPS)?

In the highly specialized world of semiconductor fabrication and integrated circuit (IC) production, programmable power supplies (PPS) play a critical role in maintaining ultra-precise control over the power supplied to process equipment.

What is a DC Programmable power supply?

DC programmable power supplies are engineered to deliver a stable and controlled DC output, making them ideal for applications that require precise voltage regulation, including laboratory testing, R&D, and production line testing.

What are the different types of programmable power supplies?

There are four basic types of programmable power supplies. These programmable power supplies cater to various needs, from basic voltage and current adjustments to more advanced and specialized requirements in both DC and AC electrical systems.

What are digital programmable power supplies?

Digital programmable power supplies feature digital interfaces, microcontroller-based regulation, and encoder knobs for precise electronic

control and monitoring. Programmed via front-panel inputs or remote software commands, these supplies convert digital settings into accurate voltage and current output adjustments.

How do I choose a programmable power supply?

Here are three key factors to consider when making your choice: To select the right programmable power supply, determine the voltage and current ranges required for your specific application. Ensure the power supply can provide the necessary output levels to meet your testing or powering needs.

Programmable power supply



Programmable DC Power Supplies

Browse our wide range of AC-DC, DC-DC, Programmable and High Voltage power supplies, DIN rails and EMI filters, as well as Value Add solutions.

Programmable DC Power Supply , EA Elektro ...

The PS/PS I Series of Programmable DC power supplies from E-A range in power from 80W benchtop devices up to 30kW in a single chassis.



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Designing a digital-controlled power supply

Aug 17, 2023 · The UCD3138 is a fully programmable digital power supply controller offering superior levels of integration and performance in a single chip solution. The flexible nature ...



Programmable Power

The AMETEK Programmable Power designs, manufactures, and markets precision, ac & dc programmable power supplies, electronic loads, application ...

AC & DC Power Supplies , Tahoe Series

Looking for a high-power AC and DC power source? The California Instruments Tahoe Series has got you covered, with power sources ranging from 15kVA to 1.08MVA. Perfect for complete ...



Programmable DC Power Supplies

Aug 19, 2025 · Robust Current-Fed Power Processing o 400,000+ Configurations Magna-Power's MagnaDC product line of programmable DC power

supplies ...



DPS3340 Discovery USB Programmable Power ...

Digilent's Discovery USB Programmable Power Supply (DPS3340) is a three channel variable DC programmable power supply that allows users to control ...



Understanding Programmable Power Supply (PPS)

Apr 7, 2025 · One of the significant enhancements introduced with USB Power Delivery (USB PD) is the Programmable Power Supply (PPS) feature. PPS allows devices to negotiate and ...

Programmable Power Supply , Tektronix

Find the perfect programmable power supply for automated testing and precision control. Get accurate,

repeatable power for R& D, production, and validation. Explore Tektronix solutions ...



FNIRSI DPS-150 DC Power Supply Variable, 30V ...

Aug 30, 2024 · Amazon : FNIRSI DPS-150 DC Power Supply Variable, 30V 5A Adjustable DC CNC Power Supply with 4-Digit IPS Display, <20mV Power ...

Programmable Power Supplies

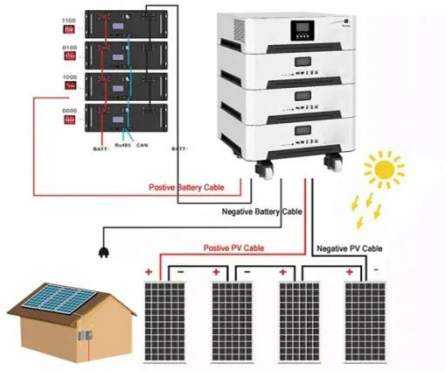
Programmable Power Supplies at CPC. Competitive prices from the leading Programmable Power Supplies distributor. Check our stock now!



Test Complex Scenarios With a Programmable ...

Feb 20, 2023 · Learn how programmable power supplies enable engineers to exercise fine-grained control over electrical power while testing complex

systems.



Programmable DC power supply design resources , TI

Modern programmable DC power supply designs often require: Power levels ranging from 50 W to over 1 kW at various voltage and current levels. Support for variable rise/fall times, nano ...



Programmable AC Power Sources

Looking for programmable AC power supplies? Check out California Instruments' power sources, ranging from 800VA to 1MVA with features like grid simulation, ...

Programmable Power Supplies (PPS): Uses and ...

Jul 21, 2025 · Programmable power supplies deliver stable, adjustable voltage and current with clean output

signals and safeguard against power grid

...



49 Programmable Power Supply Manufacturers ...

49 Programmable Power Supply Manufacturers in 2025 This section provides an overview for programmable power supplies as well as their applications and ...

Programmable DC Power Supplies

TDK-Lambda offers a wide range of programmable DC power supplies from 200W to 90kW with various output voltage and current ratings, interfaces and ...



BSIDE Programmable DC Power Supply 40V 20A ...

Sep 3, 2024 · About this item
Programmable: Variable DC power supply with USB-B connection port on the back for fast and accurate

voltage/current ...



PPS Is The Hottest USB-C Feature You Didn't ...

Mar 24, 2025 · As [GreatScott!] explains, you'll want to meet USB-C PPS. PPS stands for Programmable Power Supply. It's a method by which a USB-C ...



Variable Power Supply (Adjustable Power ...

Featured Variable/Adjustable DC Power Supply Keithley 2230 Series: Versatile, Programmable Power your tests with up to 375W across three independent ...

Programmable Power Supply

Tektronix offers a range of programmable power supplies for circuit testing, validation, and production. Learn how to use them for automated test, power ...



DC Power Supplies, Programmable, Bidirectional ...

DC Power Supplies for test lab or production applications. 108W to 1.5MW of programmable bidirectional DC Power for your device under test.

??????(???/??/??/???)

1 day ago · ????????????? (DC Power Supply Variable) ?????????????: ????? (programmable power supply) ? ???? (bench ...



USB PD3.0 PPS (Programmable Power Supply)

Jan 7, 2020 · ??????1.4w?,??5?,??22??PP S???USB?????????3.0V~21V,?????????,20 mV????????????? ...


☒ LIQUID/AIR COOLING

☒ PROTECTION IP54/IP55

☒ PCS EMS

☒ BATTERY /6000 CYCLES

Programmable Power Supplies (PPS): Uses and ...

Jul 21, 2025 · Examine the benefits and uses of programmable power supplies. Explore what programmable power supplies are and the different types.


☒ IP65/IP55 OUTDOOR CABINET

☒ OUTDOOR MODULE CABINET

☒ OUTDOOR 5G BASE STATION CABINET

☒ WATERPROOF

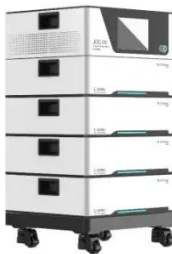
Programmable Power Supply 101

Sep 25, 2023 · Learn what programmable power supplies are, how they differ from other types of power supplies, and what benefits and applications they ...

Programmable Power Supplies

XP Power offers flexible, compact and efficient programmable power supplies to address your power supply requirements. Our space-saving designs,

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???PPS????,??PPS???????????

PPS(Programmable Power Supply)?????,??USB PD3.0???????Power Supply??,?????USB PD???????????????????? PPS????????????? ...

Intro & Tutorial on Programmable Power ...

Intro & Tutorial on Programmable Power Supply!: If you have ever wondered about programmable power supplies,then you must go through this

...



Application scenarios of energy storage battery products

DCS Series

Explore Sorensen's DCS Series, providing switched-mode DC power supplies ranging from 1kW to 3kW. Enjoy easy adjustment of voltage and current ...



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<https://www.wf-budownictwo.pl>