

PSM01 COMPACT POWER SUPPLY

ULTRA-COMPACT 150 W DC POWER SUPPLY WITH USB-C AND DC CONNECTION

JOY-IT

SPECIAL FEATURES

- ✓ Ultra compact device
- ✓ Display angle infinitely adjustable
- ✓ Overvoltage, overcurrent & overload protection
- ✓ Overtemperature & undervoltage protection
- ✓ Input & output reverse polarity protection
- ✓ Incl. PC software in various languages
- ✓ Protection parameters individually adjustable



The PSM01 compact power supply combines maximum performance and maximum flexibility in an ultra-compact housing. With an output power of up to 150 W, it is ideal for demanding applications that require a reliable and precise power supply. Thanks to the USB-C and DC connections, it is versatile and compatible with a wide range of devices and systems.

Important: A power supply unit is not included. You can choose the power source to suit your application and flexibly integrate the PSM01 into your setup.

A particular highlight is the 2.8-inch color display, which provides clear and precise information on the current voltage and power supply with a resolution of 320 x 240 pixels. The angle of the display is infinitely adjustable so that you can adapt it perfectly to your viewing conditions at any time. This makes working with the power supply unit even more convenient and clearer - whether on the workbench or in mobile use.

The PSM01 supports the common fast charging protocols Power Delivery (PD) and Quick Charge (QC) and enables a continuously adjustable output voltage of 0 to 30 V and a maximum output current of 5 A - ideal for precise control in a wide range of applications. At the same time, extensive protection mechanisms, including overvoltage, overcurrent, overload and overtemperature protection, ensure maximum safety. In addition, reverse polarity protection at the input and output protects both the power supply unit and connected devices.

Whether as a versatile laboratory power supply, for mobile applications or as a compact power supply solution for individual projects - the PSM01 compact power supply offers you maximum flexibility, high safety and exceptional performance in the smallest of spaces.

MAIN FEATURES

Display	2.8" (7.11 cm) display (320 x 240 pixels)
Protocol support	PD, QC
Power supply	USB-C, DC power supply unit (Hollow plug 5,5 / 2,5 mm)

INPUT PARAMETERS

Input voltage	DC 5 - 32 V
Input current	100 mA - 5 A

OUTPUT PARAMETERS

Output voltage	0 - 30 V
Output current	0 - 5 A
Output power	0 - 150 W

ACCURACY

Input voltage measurement accuracy	$\leq 0.2 \% \pm 5 \text{ mV}$
Output voltage measurement accuracy	$\leq 0.1 \% \pm 10 \text{ mV}$
Output current measurement accuracy	$\leq 0.1 \% \pm 5 \text{ mA (0 - 3.5 A)}$
Voltage setting accuracy	$\leq 0.1 \% \pm 10 \text{ mV}$
Current setting accuracy	$\leq 0.1 \% \pm 3 \text{ mA}$

OTHER PARAMETERS

Voltage resolution	10 mV
Current resolution	1 mA
Load regulation	0,49 %
Efficiency under full load	96,3 %
Operating temperature	0 - 40 °C
Operating humidity	0 - 75% RH

FURTHER INFORMATION

Weight	178 g
Dimensions	106 x 76 x 28 mm
Item number	JT-PSM01
Scope of delivery	JT-PSM01, USB-C cable, 2x crocodile clip cable, DC connection cable with open strands
Customs tariff number	8504403000
EAN	4250236829678

