

Bench Top Remote Programmable Switching Mode Power Supplies

multicomp PRO



MP710079
MP710079 US

MP710080
MP710080 US

MP710081
MP710081 US

Description

This series of 100W Switching Mode Power Supplies with Current Limiting Control is designed with the objectives of high accuracy, compactness and easy portability. Rotary encoder tuning with MCU are used for voltage and current control. 4 digit display LCD of voltage and current for high precision.

This power supply is ideal for trouble shooting circuit boards or devices which require two or three different input voltages such as 3V or 5V, 12V and 1-36V. This power supply can provide 3 outputs at the same time.

All three outputs are fully isolated so different cross connections of 2 or 3 outputs can provide various fixed or variable output voltages. Any output can be connected for positive or negative polarity.

Features

- Remote Programmable via USB
- 4 Digit Display with 10mV & 10mA resolution
- 3 isolated outputs with 1 x variable, 2 x isolated fixed

Specifications

| Part Number | MP710079 MP710079 US | MP710080 MP710080 US | MP710081 MP710081 US |
|-----------------------------------|-------------------------|-------------------------|-------------------------|
| Output Voltage Range | 1V DC to 20V DC | 1V DC to 36V DC | 1V DC to 60V DC |
| Output Current Range | 0.25A to 5A | 0.25A to 3A | 0.25A to 1.6A |
| Voltage Regulation | | | |
| Load from 10% to 90% Variation | 70mV | 70mV | 70mV |
| Line from 90 to 264V AC Variation | 25mV | | |
| Ripple & Noise (peak to peak) | ≤120mV | ≤150mV | ≤180mV |

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

multicomp PRO

Bench Top Remote Programmable Switching Mode Power Supplies



| Part Number | MP710079 MP710079 US | MP710080 MP710080 US | MP710081 MP710081 US |
|------------------------------------|--|-------------------------|-------------------------|
| Current Regulation | | | |
| Load from 10% to 90% Variation | 50mA | | |
| Line from 90 to 264V AC Variation | 20mA | | |
| Ripple & Noise (peak to peak) | ≤50mA | | |
| Switching Operation Frequency | 50kHz to 150kHz | | |
| Aux output 1 | Fixed 3.3 /5V DC. 1.8A cont. 2A Max. | | |
| Aux output 2 | Fixed 12V DC, 800mA cont. 1A Max. | | |
| Power Factor | >0.9 | | |
| Efficiency at Maximum Power | ≥80.5% | | |
| Volt and Amp Control Type | Rotary Encoder | | |
| Voltmeter and Ammeter Display | 4 Digit LCD | | |
| Voltmeter Accuracy | 5 counts for range V<5V ±0.2% +5 counts for range V≥5V | | |
| Ammeter Accuracy | 15 counts for range I≤1A ±0.5% +6 counts for range I>1A | | |
| LCD Indication | CC, CV, Amp, Volt, Output ON-OFF, Aux output current | | |
| Protection | Short Circuit, Overload, Over Temperature, Tracking OVP | | |
| CE Approvals | LVD: EN 61010, EMC: EN 55011 | | |
| Cooling System | Natural Convection | | |
| Dimensions (W×H×D) | 70mm × 150mm × 250mm / 2.8" × 6" × 9.8" | | |
| Input Voltage (Universal input) | 100V AC to 240V AC, 50Hz / 60Hz | | |
| Full Load Input Current at 230V AC | 0.83A | | |
| Weight | 2 kgs | | |

Accessories

AC Power Cord (UK / EU) or US, Test Lead Set, USB Cable and User Manual

Standard Warranty

03 years

Part Number Table

| Description | Part Number |
|--|-------------|
| Programmable Switching Mode Power Supply, 1V DC to 20V DC, 5A, UK / EU | MP710079 |
| Programmable Switching Mode Power Supply, 1V DC to 36V DC, 3A, UK / EU | MP710080 |
| Programmable Switching Mode Power Supply, 1V DC to 60V DC, 1.6A, UK / EU | MP710081 |
| Programmable Switching Mode Power Supply, 1V DC to 20V DC, 5A, US | MP710079 US |
| Programmable Switching Mode Power Supply, 1V DC to 36V DC, 3A, US | MP710080 US |
| Programmable Switching Mode Power Supply, 1V DC to 60V DC, 1.6A, US | MP710081 US |

Important Notice : This data sheet and its contents (the "Information") belong to the members of the AVNET group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Multicomp Pro is the registered trademark of Premier Farnell Limited 2019.

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

