

JUMO GmbH & Co. KG
 Delivery address: Mackenrodtstraße 14
 36039 Fulda, Germany
 Postal address: 36035 Fulda, Germany
 Phone: +49 661 6003-0
 Fax: +49 661 6003-607
 E-mail: mail@jumo.net
 Internet: www.jumo.net

JUMO Instrument Co. Ltd.
 JUMO House
 Temple Bank, Riverway
 Harlow, Essex CM20 2DY, UK
 Phone: +44 1279 635533
 Fax: +44 1279 635262
 E-mail: sales@jumo.co.uk
 Internet: www.jumo.co.uk

JUMO Process Control, Inc.
 6733 Myers Road
 East Syracuse, NY 13057, USA
 Phone: 315-437-5866
 1-800-554-5866
 Fax: 315-437-5860
 E-mail: info.us@jumo.net
 Internet: www.jumousa.com



JUMO mTRON T Measurement, Control, and Automation System

Power supply units 24 V

Brief description

The particular features of these DIN rail power supply units are the high efficiency and the small size. These are achieved by a synchronous rectification and additional new design details.

High immunity to transients and power surges as well as low electromagnetic emission enable its use in almost every environment.

The integrated output power manager, a large input voltage range, and virtually no input inrush current guarantee easy installation and use. A diagnostic is easy due to the potential-free DC-OK contact, a green DC-OK LED, and red overload LED.

Spring-clamp terminals allow a safe and fast installation.



Type 705090/05-33



Type 705090/10-33

Order details

(1) Basic type	
705090	Power supply unit
(2) Output	
05	5 A
10	10 A
(3) Input voltage	
33	AC 100 to 240 V +10/-15 %, 48 to 63 Hz

Features

- AC 100 to 240 V wide-range input
- Quick-connect spring-clamp terminals
- Robust metal case
- Efficiency up to 93.5 %
- Active Power Factor Correction (PFC)
- 150 % peak load capability

Order code / -
 Order example 705090 / 05 - 33

Scope of delivery

1 power supply unit in the version ordered
1 instruction manual

JUMO GmbH & Co. KG

Delivery address: Mackenrodtstraße 14
36039 Fulda, Germany
Postal address: 36035 Fulda, Germany
Phone: +49 661 6003-0
Fax: +49 661 6003-607
E-mail: mail@jumo.net
Internet: www.jumo.net

JUMO Instrument Co. Ltd.

JUMO House
Temple Bank, Riverway
Harlow, Essex CM20 2DY, UK
Phone: +44 1279 635533
Fax: +44 1279 635262
E-mail: sales@jumo.co.uk
Internet: www.jumo.co.uk

JUMO Process Control, Inc.

6733 Myers Road
East Syracuse, NY 13057, USA
Phone: 315-437-5866
1-800-554-5866
Fax: 315-437-5860
E-mail: info.us@jumo.net
Internet: www.jumousa.com

**Technical data (extract)**

Type		705090/05-33	705090/10-33
Output voltage	nom.	DC 24 V SELV	
Adjustment range	min.	DC 24 to 28 V	
Output current continuous at DC 24 to 28 V	nom.	5 to 4.5 A	10 to 9 A
Output current for typical 4 s at DC 24 to 28 V	nom.	7.5 to 6.7 A	15 to 13.5 A
Output power continuous at DC 24 V	nom.	120 W	240 W
Output power for typical 4 s at DC 24 V	nom.	180 W	360 W
Output ripple (20 Hz to 20 MHz)	max.	50 mVpp	
Input voltage	nom.	AC 100 to 240 V +10/-15 %	AC 100 to 240 V ±15 %
Mains frequency	nom.	50 to 60 Hz ±6 %	
Input current at AC 120/230 V	typ.	1.10/0.62 A	2.22/1.22 A
Power factor at AC 120/230 V	typ.	0.99/0.91	0.98/0.92
Input inrush current at AC 120/230 V	typ.	9/11 A peak	4/7 A peak
Hold-up time at AC 120/230 V	typ.	34/65 ms	27/28 ms
Efficiency at AC 120/230 V	typ.	91.6/92.7 %	92.6/93.5 %
Power losses at AC 120/230 V	typ.	11.0/9.4 W	20.0/18.1 W
Derating from 60 °C to 70 °C	min.	3 W/°C	6 W/°C
Operational temperature range		-25 to +70 °C	
Storage temperature range		-40 to +85 °C	
Use		Indoor	
Site altitude		Up to 2000 m above sea level	
Dimensions W x H x D	nom.	40 mm x 130.5 mm x 121.5 mm	60 mm x 130.5 mm x 121.5 mm
Weight	max.	620 g	900 g

For the detailed technical data and further technical information please refer to the original manufacturer's data sheet:

Type 705090/05-33: www.pulspower.com/pdf/qs5_241.pdf

Type 705090/10-33: www.pulspower.com/pdf/qs10_241.pdf