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TECHNOLOGY GROUP

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Expert team | Trust guarantee | 100% satisfaction

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AC / DC POWER SUPPLY
PRIMARY SWITCHED MODE
TRIPLE OUTPUT
P 3051 SERIES

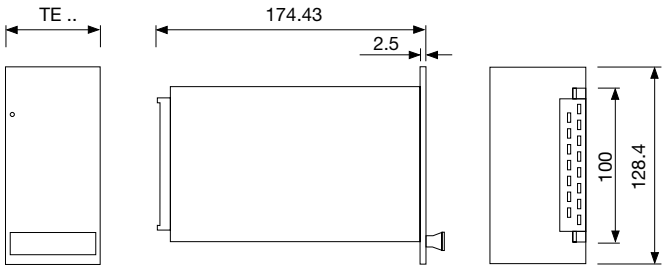
MGV Stromversorgungen



- **19" plug-in module**
- **Wide range input 99 - 264 VAC**
- **EMC Standards EN 50081-1 and EN 50082-2**
- **All outputs permanent short-circuit proof**
- **Outputs SELV according to EN 60950**
- **Optional Power-Fail and ACFAIL signal**
- **Assembly kit for DIN-rail or wall mounting**
- **Additional pin connections available**

3 Years Guarantee!

LGA Landesgewerbeanstalt Bayern – Konformitäts-Zertifikat 213 – bauartgeprüft und überwacht
Geprüfte Sicherheit Safety Testing
IEC 950
EN 60950/VDE 0805



3HE

Front panel: 8TE - 40.3
Handle width: 3TE

ORDER DATA								*Order numbers in italics*
Vo1 V	**Io1 A**	**Vo2 V**	**Io2 A**	**Vo3 V**	**Io3 A**	**Width TE**	**Height HE**	**Type-No.**
+5	0 - **7**	**+12**	0 - **1.5**	**-12**	0 - **0.5**	8	3	**P3051-05121** *15.7540.000*
+5	0 - **7**	**+12**	0 - **1.5**	**-12**	0 - **0.5**	8	3	**P3051-05121PF** *15.7540.002*
+5	0 - **7**	**+12**	0 - **1.5**	**-12**	0 - **0.5**	8	3	**P3051-05121AC** *15.7540.004*

Additionally:	
PF-signal or ACFAIL-signal	*see table for order numbers*
Front panel (nature anodized)	*33.1594.000.011*
Assembly kit for DIN-rail	*15.7140.000.190*
Assembly kit for wall mounting	*15.7140.000.290*

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Email: Anfrage@mgv.de · Internet: www.mgv.de

INPUT

Input voltage range	AC 99 - 264 V, 50/60 Hz
Efficiency	typ. 73%
Input current limitation	≤ 10 A_{peak} typ. – in cold state ≤ 15 A_{peak} typ. – in hot state
Fuse	3.15 AT

OUTPUT

Adjustment range Vo1	+4% / -2%
Operation indicator	Green LED for Vo1
Ripple	Vo1 < 40 mV_{pp}, Vo2 < 30 mV_{pp}, Vo3 < 10 mV_{pp}
Noise voltage	< 50 mV_{pp} typ. (total of all noise components)
Temperature coefficient	≤ 0.025% / K, Vo3 ≤ 0.05% / K
Switch on/switch off performance	No overshooting of Vo (soft-start)
Rise-delay time	1.5 s
Run-up time	< 30 ms

REGULATION

Line regulation	< 0.2% for Vo1 < 0.5% for Vo2, Vo3 at Vi 99 - 264 V
Load regulation	< 0.1% for Vo1 at Io 0 - 100% < 0.5% Vo3 at Io 0 - 100% Vo2 typical (see diagram)
Response time	< 1 ms at Io 20 - 80%

PROTECTION AND CONTROLLING

Overvoltage protection	125% ±10% for Vo1, 130% ±15% for Vo2, automatically repeating, transzorb diode for Vo3
Overload protection	At exceeding the total output of Pa = (65 ±5) W, automatically repeating
Current limitation	For Vo3 typ. 120% $I_{nominal}$, straight characteristic. All outputs permanent short-circuit proof
Mains buffering	20 ms at 100% load
Power-Fail (see diagram)	The transistor for the PF-signal is blocked, if the output voltage reached a value > 95% of the nominal output voltage. The transistor becomes conductive > 10 ms before the output voltage drops.
Signals ACFAIL and SYSRESET	TTL-signals with 48 mA drive current, open-collector and low-active-level

SAFETY

	IEC 950, EN 60950 / VDE 0805 Safety Class I, VDE 0100

EMC

Interference suppression/ interference immunity	EN 50082-2: 1992 EN 61000-4-2 EN 61000-4-3 EN 61000-4-4 EN 61000-4-5 EN 61000-4-11	 Intensity 4 Noise level 10 V/m Intensity 4 Intensity 4
Interference emission	EN 50081-1: 1992 EN 55011 / EN 55022 Class B, interference transmission depends on assembly	

OPERATING DATA

Temperature range	0...+70°C, at free convection
Derating	3% / K at +50°C (see diagram)
Weight	0.5 kg

Ventilation from bottom to top of the power supply and the housing-specific heatradiation must not be obstructed when installing the power supply. Ensure fire protection by means of the surrounding housing system. In general, kindly refer to the MGV user instructions before use.

MECHANICS

Dimensions	19" plug-in module according to DIN 41494 Part 5
Connection	Connector H 15 / DIN 41612 codable

PIN CONNECTIONS

H15 DIN 41612

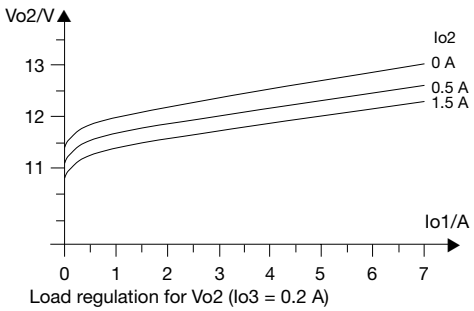
30	26	22	18	14	10	6
N	near mains	-12VL	1)	OVL	OVL	OVF

32	28	24	20	16	12	8	4
PE ⏚	L1	PF ACFAIL	+12VL	SYS-RESET	+5VL	+5VL	+5VF

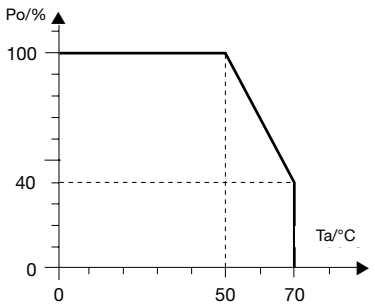
1) internally connected Additional connections available!

EXPLANATION

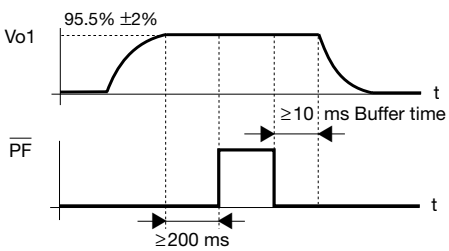
PE ⏚	Protective conductor **Do not use supply without PE-connection!**
L1 / N	Mains phase / neutral conductor
L	Load connection
F	Sense connection (Signal line)
OVL	Common ground for Vo1, Vo2, Vo3
Sense lines at 5 V	**For a safe operating mode of the device, it is mandatory to connect +5VL with +5VF and OVL with OVF.** **Maximum voltage compensation of 0.1 V of each line.**

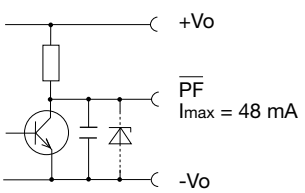


Load regulation for Vo2 (Io3 = 0.2 A)

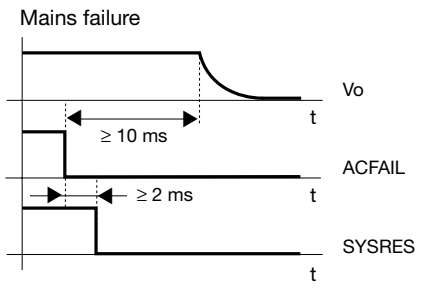


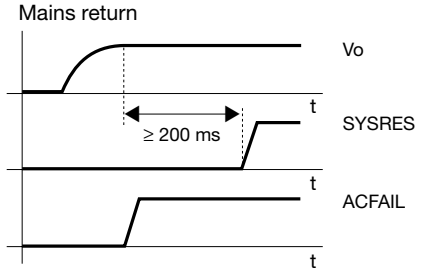
Derating





Power-Fail signal





Signals ACFAIL / SYSRESET

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