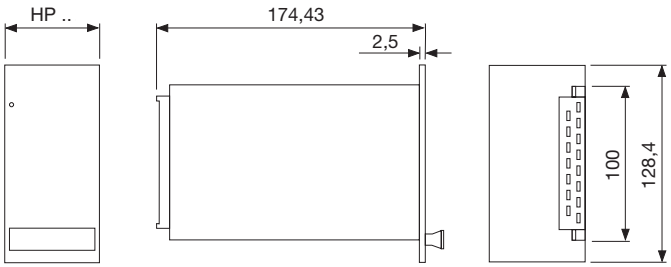
AC / DC POWER SUPPLY
PRIMARY SWITCHED MODE
SINGLE OUTPUT
P 60 SERIES

- **19" plug-in module**
- **Wide range input 90 – 264 VAC**
- **Mains buffering 140 ms**
- **Power Fail signal**
- **Output permanent short-circuit proof and SELV according to EN 60950**
- **Overvoltage protection**



3U

Front panel: 6HP – 30.1
Front panel: 8HP – 40.3

ORDER DATA				*Order numbers in italics*
Vo V	**Io A**	**Width HP**	**Height U**	**Type No.**
5	0 – **10**	6	3	**P60-05101** *15.8241.302*
12	0 – **5**	6	3	**P60-12051** *15.8241.402*
15	0 – **4**	6	3	**P60-15041** *15.8241.502*
24	0 – **2.5**	6	3	**P60-24021** *15.8241.602*
Additional output voltages upon request				
Additionally:				
Front panel **6TE** (natural anodized)				*33.1582.020.011*
Front panel **8TE** (natural anodized)				*33.1582.021.011*
Assembly kit for DIN-rail				*15.7140.000.190*
Assembly kit for wall mounting				*15.7140.000.290*

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INPUT

Input voltage range	AC 90 – 264V, 50/60 Hz
Efficiency	79 – 87%
Input current limitation	≤ 16 A_{peak} typ. – in cold state ≤ 30 A_{peak} typ. – in hot state
Internal fuse	2 AT

OUTPUT

Preset range V_0	±5%
Operation indicator	Green LED for Vo
Ripple	< 20 mV_{pp}
Noise voltage	< 80 mV_{pp} typ. (band width 20 MHz)
Temperature coefficient	≤ 0.025% / K
Switch on/switch off	No overshoot of Vo (soft-start)
Start up delay	< 1 s
Rise time	≤ 30 ms

REGULATION

Line regulation	< 0.1% for Vo at V_{imin} – V_{imax}
Load regulation	< 0.1% for Vo at Io 0 – 100%
Response time	< 1 ms at Io 20 – 80%

PROTECTION AND CONTROLLING

Overvoltage protection	125% ±5% $V_{nominal}$, automatic repeat
Current limitation	Switches off at exceeding 110% $I_{nominal}$, automatic repeat, output permanent short-circuit proof
Mains buffering	140 ms at 100% load
Power-Fail	The transistor for the PF-signal is blocked, if the output voltage has reached a value > 95% of the nominal output voltage and the input voltage is > 94 VAC. The transistor becomes conductive > 5 ms before the output voltage drops. The threshold is 90 VAC ±2 V

EMC

Mains feedback (PFC)	EN 61000-3-2 Class A	
Flicker	EN 61000-3-3	
Interference suppression/ interference immunity	EN 61000-6-2	
	EN 61000-4-2	Intensity 4
	EN 61000-4-3	Noise level 10 V/m
	EN 61000-4-4	Intensity 4
	EN 61000-4-5	Intensity 4
	EN 61000-4-11	
Interference emission	EN 50081-1 EN 55022 Class B, Radiation depends on assembly	

SAFETY

IEC 60950 / EN 60950 / VDE 0805
Safety Class I, VDE 0100
UL 60950 / CSA 22.2-60950

OPERATING DATA

Temperature range	0 to 70°C, at free convection
Derating	2.5% / K at +50°C (see diagram)
Weight	0.35 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 superior housing system.

MECHANICS

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

PIN ASSIGNMENT

H15 DIN 41612

30	26	22	18	14	10	6
N	near-mains	1)	1)	-L	-L	-F

32	28	24	20	16	12	8	4
PE ⏚	L1	Power-Fail	1)	1)	+L	+L	+F

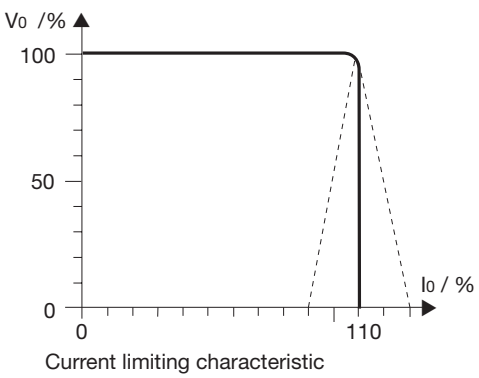
1) internally connected

EXPLANATORY NOTES

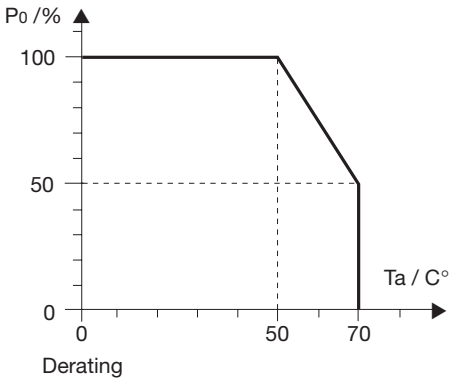
PE ⏚	Protective conductor **Do not use supply without PE-connection!**
L1 / N	Mains phase / neutral conductor
L	Load connection
F	Sense connection (Signal line)

For reliable operation of the device, it is necessary to connect +L with +F and -L with -F. Maximum voltage compensation of 0.25 V per line.

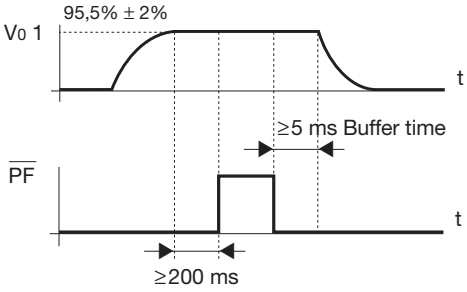
safety information www.mgv.de **Please refer to the MVG user instructions before use (also in internet: www.mvg.de)**

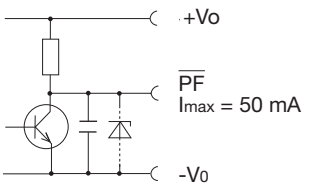


Current limiting characteristic



Derating





Power-Fail signal