

ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

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We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

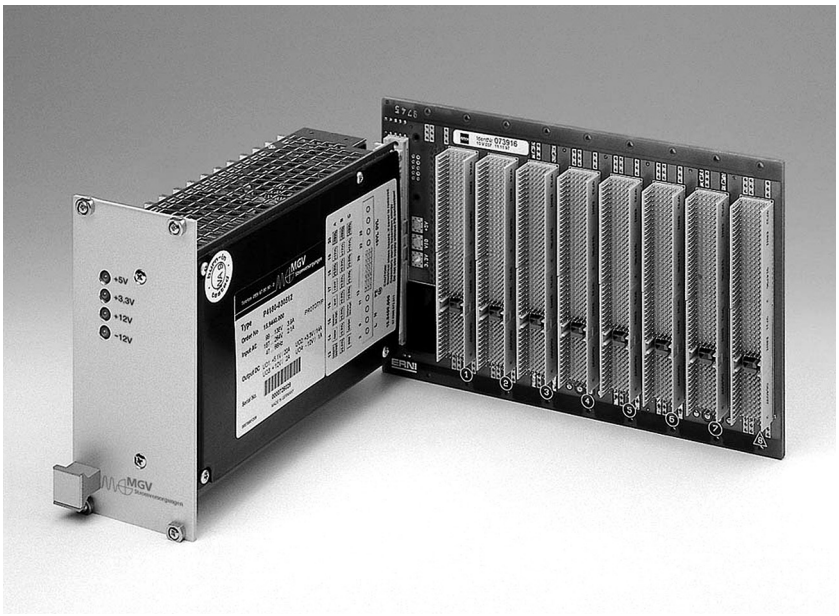
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- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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Find the *MGV P4180-030512* at our website: *Click HERE*

AC / DC POWER SUPPLY for CompactPCI
PRIMARY SWITCHED MODE
QUADRUPLE OUTPUT
P 4180 SERIES



- **19" plug-in module**
- **Autoranging 120/230 VAC**
- **EMC standards EN 50081-1 and EN 50082-2**
- **All outputs permanent short-circuit proof and SELV according to EN 60950**
- **Primary/secondary overvoltage protection**
- **Overtemperature protection**
- **Signal output: DERATE**
- **Assembly kit for DIN-rail or wall mounting**

3 Years Guarantee!

Geprüfte Sicherheit
Safety Testing
IEC 950
EN 60950/VDE 0805

NRTL/C

Front panel: 12TE - 60.6
Handle width: 3TE

ORDER DATA										*Order numbers in italics*
Vo1 V	**Io1 A**	**Vo2 V**	**Io2 A**	**Vo3 V**	**Io3 A**	**Vo4 V**	**Io4 A**	**Width TE**	**Height HE**	**Type-No.**
+5.1	0 - **20**	**+3.3**	0 - **14**	**+12**	0 - **2**	**-12**	0 - **1**	12	3	**P4180-030512** *15.9440.000*

Additionally:	
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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AC / DC POWER SUPPLY for CompactPCI
PRIMARY SWITCHED MODE
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INPUT

Input voltage range	AC 187 - 264 V, 50/60 Hz, with autoranging to AC 99 - 138 V
Efficiency	typ. 82%
Input current limitation	≤ 25 A_{peak} typ. – in cold state ≤ 35 A_{peak} typ. – in hot state
Fuse	6.3 AT

OUTPUT

Adjustment range Vo1, Vo2	±5%
Operation indicator	Green LED for Vo1, Vo2, Vo3, Vo4
Ripple	Vo1, Vo2 < 50 mV_{pp}, Vo3, Vo4 < 30 mV_{pp}
Noise voltage	50 mV_{pp} typ. (band width 20 MHz)
Temperature coefficient	0.025% / K
Switch on/switch off performance	No overshooting of Vo (soft-start)
Rise-delay time	< 0.5 s
Run-up time	≤ 50 ms

REGULATION

Line regulation	< 0.2% for Vo1, Vo2 < 0.5% for Vo3, Vo4
Load regulation	< 0.1% for Vo1 < 1% for Vo2 < 5% for Vo3, Vo4
Response time	< 0.5 ms at Io 20 - 80%

PROTECTION AND CONTROLLING

Overvoltage protection	125% ±5% for Vo1, Vo2 125% ±10% for Vo3, Vo4 automatically repeating
Current limitation	typ. 110% $I_{nominal}$ for Vo1, Vo2 typ. 140% $I_{nominal}$ for Vo3, Vo4 Effective for all outputs Outputs permanent short-circuit proof
Overtemperature protection	Switches off when inside temperature becomes too high, switches on again with hysteresis.
Mains buffering	> 20 ms at 100% load
Signal DEG (Derate)	Open-Collector, I_{max} = 48 mA Low during start-up of Vo High 100 - 200 ms after start-up of Vo Low ≥ 5 ms before break-down of Vo (mains failure)

EMC

Interference suppression/ interference immunity	EN 50082-2: 1992	
	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	
	VDE 0160 (with switch-off and restart)	
Interference emission	EN 50081-1: 1992 EN 55011 / EN 55022 Class B, interference transmission depends on assembly	

SAFETY

	EN 60950 / VDE 0805 Safety Class I, VDE 0100 CSA NRTL/C / UL 1950 / CSA 22.2-950

OPERATING DATA

Temperature range	0...+70°C, at free convection
Derating	2% / K at +50°C (see diagram)
Weight	1.0 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.

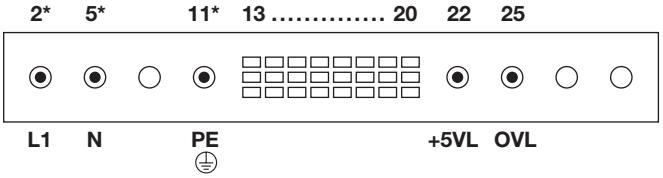
MECHANICS

Dimensions	19" plug-in module according to DIN 41494 Part 5
Connection	Connector M24/8 / DIN 41612

PIN CONNECTIONS

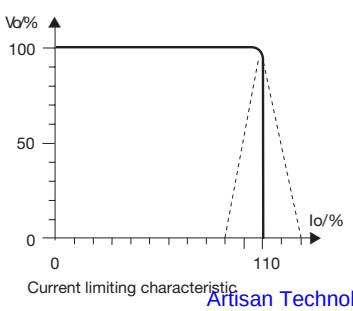
13	14	15	16	17	18	19	20	
1)	1)	1)	OVF	+5VF	+3.3VL	+12VL	-12VL	A
+3.3VL	+3.3VL	+3.3VL	+3.3VL	+3.3VL	+3.3VL	+12VL	-12VL	B
2)	DEG	1)	+3.3VL	+3.3VL	+3.3VL	+12VL	-12VL	C

1) internally connected
2) has to be connected with OVF or OVL

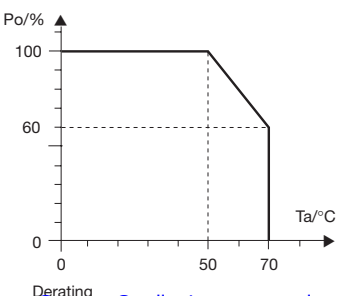


EXPLANATION

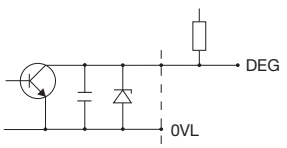
PE ⏚	Protective conductor
L1 / N	Mains phase / neutral conductor
L	Load connection (**Pin 13 ..... 20 max. 2 A** for each contact)
F	Sense connection
OVL	Common ground for Vo1, Vo2, Vo3, Vo4
Sense lines at 5 V	**For a safe operating mode of the device, it is mandatory to connect +5VL with +5VF and OVL with OVF. Maximum voltage compensation of 0.25 V of each line.**

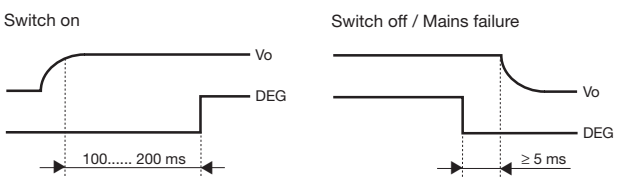


Current limiting characteristic



Derating





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