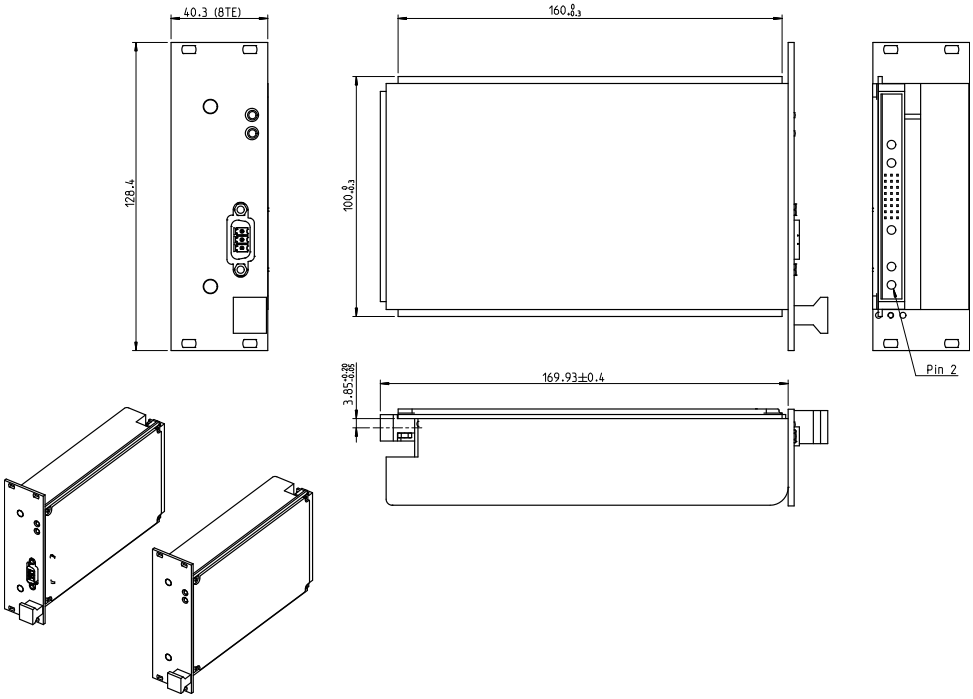
AC / DC POWER SUPPLY FOR CPCI
PRIMARY SWITCHED · DUAL OUTPUT
DG2070 SERIES

- 75 watts output power
- 19“- plug-in module 3U / 8 HP
- For Compact PCI Small Systems
- Input frontside or backside
- Output via connector M24/8
- Full performance at free convection (no forced ventilation necessary)
- 3 Year Warranty

CE



ORDER DATA								*Order numbers*
Vo1 V	**Io1 A**	**Vo2 V**	**Io2 A**	**Width HP**	**Height U**	**Input voltage range**	**Mains input via**	**Typ-No.**
+5.1	0.5 - 8	3.3	0 - 10	8	3	9.0 - 18VDC	M24/8	**DG2070-0503-1** *15.9441.100*
+5.1	0.5 - 8	3.3	0 - 10	8	3	18 - 36VDC	M24/8	**DG2070-0503-2** *15.9441.200*
+5.1	0.5 - 8	3.3	0 - 10	8	3	18 - 36VDC	PSC 1.5/3-M-PE frontside	**DG2070-0503-2F** *15.9441.300*

Additionally:

Front panel (for DG2070-0503-1/2) *33.1594.023.011*
Front panel (for DG2070-0503-2F) *33.1594.022.011*

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DG2070 SERIES

1. INPUT

Input voltage range Vi	DG2070-0503-1:	DC 9.0 - 18V
	DG2070-0503-2/2F:	DC 18 - 36V
Efficiency	80% typ.	
Internal fuse	DG2070-0503-1:	15AT
	DG2070-0503-2/2F:	10AT

2. OUTPUT

Adjustment range Vo1, Vo2	± 5%
Operation indicator	Green LEDs for Vo1 and Vo2
Ripple	< 50 mV_{ss} > 0°C
Noise voltage	< 50 mV_{ss}
Temperature coefficient	0.025% / K
Switch on/ switch off performance	No overshooting of Vo (soft start)
Start-up delay	< 1s
Rise time	≤ 30 ms

3. REGULATION

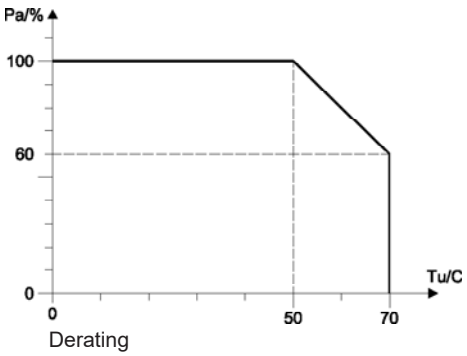
Line regulation	< 0.2% for Vo1, Vo2 at Vi_{min} - Vi_{max}
Load regulation	< 0.5% for Vo1 6 - 100%
	< 0.5% for Vo2 0 - 100%
	(base load Vo1: 0.5A)
Response time	< 0.5 ms at Io 20 - 80%

4. PPROTECTION AND CONTROLLING

Overvoltage protection	125 ± 5% for Vo1, Vo2
Current limitation	105 - 140%
	Output permanent short-circuit proof
Overtemperature protection	Switches off if inside temperature becomes too high, restart with hysteresis

5. EMC

Interference suppression / interference immunity	EN61000-6-2 / EN61204-3	
	EN61000-4-2	8 / 15KV
	EN61000-4-3	Noise level 10V/m
	EN61000-4-4	2KV / 2KV
	EN61000-4-5	2KV
	EN61000-4-6	Noise level 10V/m
Interference emission	EN61000-6-3 / EN61204-3	
	EN55011 Class B	
	Radiation depends on assembly	



Derating

6. SAFETY

	IEC 60950-1 / EN 60950-1
	Safety class I

7. OPERATING DATA

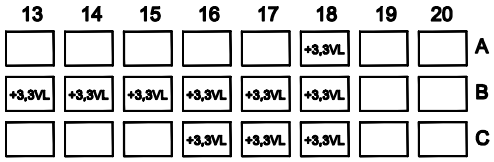
Temperature range	-25...70°C
Derating	2%/K at +50°C (see diagram)
Weight	0.55 kg
Parallel connection	no

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.

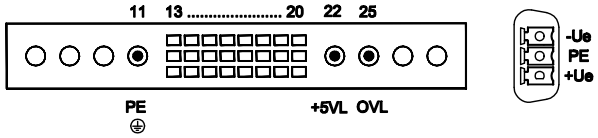
8. MECHANICS

Dimensions	19“ plug-in module according to DIN41494
	3 U / 8 HP
	Plug-in by PCB
Line Connection	
DG2070-0503-2F	frontside: PHOENIX PSC 1.5/3-M-PE
DG2070-0503-1/2	backside: Connector M24/8, DIN 41612

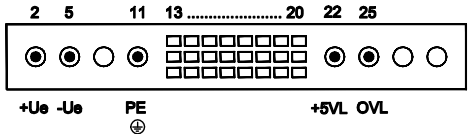
9. PIN CONNECTIONS



DG2070-0503-2F



DG2070-0503-1
DG2070-0503-2



10. EXPLANATION

PE ⏚	Protective conductor
	Do not use without PE-connection!
Ue	Input
L	Load connections
	Pin 13...20 max. 2 A each contact
OVL	**Common ground for Vo1, Vo2**

safety information
www.mgv.de

Please read the MGV safety instructions on our homepage before use: www.mgv.de