

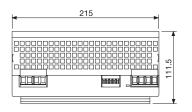
- Assembly kit for DIN-rail or wall mounting
- 3 x 340 550 V wide range input
- Optional power factor correction (PFC)
- IT-net suitable
- Mains input protected by fuse
- Mains buffering 10 18 ms
- Output adjustable
- Parallel connection with load sharing
- Power boost with high start-up current
- Diverse control and load signals
- Primary/secondary overvoltage protection
- Overtemperature protection
- Operational in every installation position by integrated fan

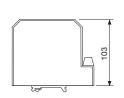


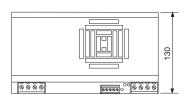




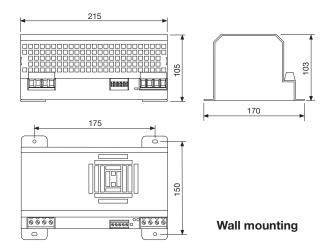








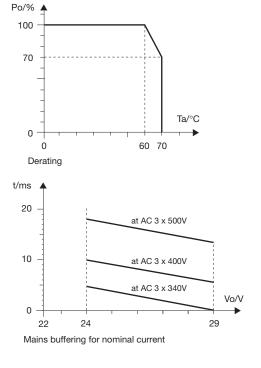
DIN-rail mounting

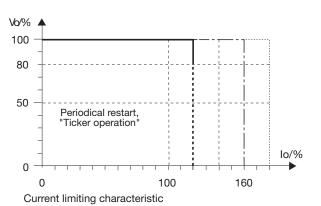


ORDER DATA		Order numbers in ital	ics			
Vo V	lo A	Type No. DIN-rail	Type No. Wall mounting			
24	0 - 20	PH513-2420 15.8041.800	PH513-2420 15.8041.805			
24	0 - 20	PH513-2420PFC 15.8041.900	PH513-2420PFC 15.8041.905			
Further output voltages (e.g. 48 V, 60 V) upon request						

Please ensure a distance of approx. 50 mm of the air inlet openings at the front of the housing and of the air outlet openings at the top and at the bottom of the device from surrounding components or surfaces. Also make sure during installation that outgoing air will not be once more sucked into the device.

INPUT		EMC			
nput voltage range AC 3 x 340 - 550 V, 50/60 Hz fficiency 88%		Mains feedback (PFC)	EN 61000-3-2: 1995 Class A applicable for PFC model only!		
Input current limitation	< 50 Apeak typ. – in cold state < 100 Apeak typ. – in hot state	Interference suppression/ interference immunity	EN 61000-4-2	Intensity 4 Noise level 10 V/m Intensity 4 Intensity 4 Intensity 4	
Fuse	Internal fuse with 3 x 2.5 AT External fuse sufficient up to max. 32 A		EN 61000-4-4 Int EN 61000-4-5 Int		
OUTPUT				Noise level 10 V	
Adjustment range	22 - 29 V, Factory preset at 24 V / ±1 V		EN 61000-4-11		
Max. output	480 W	Interference emission	EN 50081-1 EN 55011, EN 55022 Class B, interference transmission depends on assembly		
Operation indicator	Green LED for Vo, red LED for error				
Ripple	typ. 60 mV _{pp}	OPERATING DATA			
Noise voltage	typ. 100 mV _{pp} typ. (band width 20 MHz)				
Temperature coefficient	≤ 0.025% / K	Temperature range	0+70°C, internal, temperature-controlled ventilator, air intake at the front		
Switch on/switch off performance	No overshooting of Vo (soft-start)	Derating	3% / K at +60°C (se		
Rise-delay time	≤ 0.1 s	Weight	without PFC approx. 1.5 kg,		
Run-up time	•		with PFC approx. 1.7 kg		
REGULATION	,	In general, kindly refer to the MGV user instructions before use. Fire protection has to be ensured by the surrounding housing system.			
Line regulation	< 0.2% for Vo at Vimin - Vimax	MECHANICS			
Load regulation	< 0.5% for Vo at Io 0 - 100%	Connection	Maina innutu 4 n	alaa	
	for single operation	Connection	Mains input: 4 poles, 0.75 - 10/16 mm² strand/wire		
	< 3% for Vo at Io 0 - 100% for parallel operation		Load output: 4 p	oles, - 10/16 mm² strand/wire	
Response time	< 0.3 ms at Io 20 - 80%		Control signals: 5 poles, 0.15 - 2.5 mm ²		
PROTECTION AND COM	ITROLLING				
Overvoltage protection Current limitation	29 - 34 V, automatically repeating 105 - 140% Inominal (see diagram) output permanent short-circuit proof	Assembly	All systems can be snapped onto a symmetrical 35 x 7.5 mm DIN-rail (DIN 50022) or mounted onto a sidewall with mounting plates.		
Overtemperature protection	•		EXPLANATION		
Mains buffering			PE Protective conductor has to be equipped		
Monitoring signal	Relay contact (< 60 V / 0.2 A) Change-over at approx. 19 V	FE		ctor cross section than	
Control signal OFF	External switching off with > 2 - 24 V or with switch from Vo	L1/L2/L3	Do not use supply Mains phases	without PE-connection!	
SAFETY		+/-	Load connections		
	EN 60950 / VDE 0805 / VDE 113	Relay/OK/Fail	Monitoring connections		
	Safety Class I, VDE 0100, IP 20	Off/Ua	Control connections		
	Sparking distance in air and leakage distance acc. to VDE 0160/pr EN 50178 UL 508 Listed / UL 1950 / CSA 22.2-950	Switching from single to parallel operation mode	By switch at the bo		





The start-up takes place with short-circuit current between 130 and 170% of the nominal current for a period of approx. 0.4 s. Start-up frequency is approx. 0.3 Hz.

The average short-circuit current is about 25% Inominal