

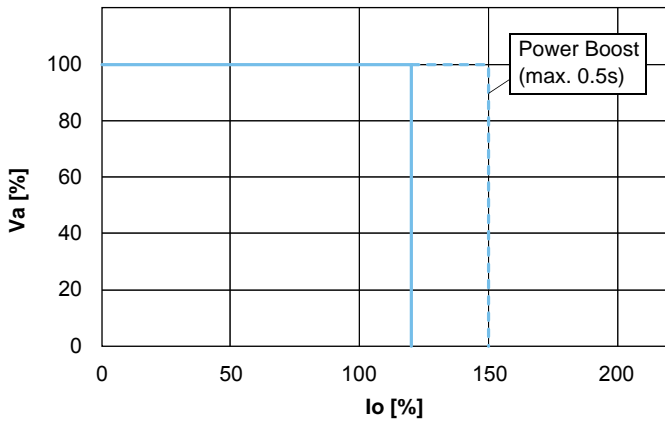
Switched-Mode Power Supplies 72V



Power Supplies	S01-72/500	S01-72/1000
Input		
Input voltage range	93...123VAC / 187...264VAC automatical switchover	AC 3 x 340...550V
Power frequency	50...60Hz	50...60Hz
Efficiency	typ. 88%	typ. 91.5%
Input current limitation	=< 70A _{peak} typ. cold, =< 150A _{peak} hot	< 35A _{peak} typ. in cold state, < 70A _{peak} in hot state
Internal fuse	16ATH/250VAC	3x6.3A
External fuse		intern 3 x 6.3AT, external fuse with 16A to max. 32A necessary (C,D,K)
Output		
Preset range Vo	54 - 80VDC, factory setting: 72VDC ± 0.5%	56 - 80VDC, factory setting: 72VDC ± 0,15/0,2V
Max. Outputpower	480W	1000W
Powerboost	max. 150% (see chart)	max. 190-210% (see chart)
Start-up delay	< 1,5s (bei 230VAC)	250 ms typ.
Rise time	40 / 50 / 80ms typ.	20ms typ., 155ms typ. at 50.000 iF load
Back feeding voltage	up to 100VDC	up to 100VDC
Parallel connection	yes (max. 3 identical power supplies)	yes (max. 3 identical power supplies)
Regulation		
Line regulation	< 0.2% for Vo at Vi _{min} - Vi _{max}	< 0.3% for Vi _{min} - Vi _{max}
Load regulation	< 0.5% for Vo at Io 0 - 100% Boost-M. < 3.0% for Vo at Io 0 - 100% Parallel-M.	< 0.5% for Vo at Io 0 - 100% single operation < 3% for Vo at Io 0 - 100% parallel operation
Response time	typ. 1ms at Io 20 - 80%	1 ms typ. at Io 20 - 80%
Protection and Controlling		
Overtemperature protection	Switches off if inside temperature becomes to high, reconnection with hysteresis	Switches off if inside temperature becomes to high, reconnection with hysteresis
Safety/Standards		
	IEC 60950 / EN 60950 / VDE 0805 IP20, safety class 1, pollution degree 2 UL508/UL60950	EN 60950 / VDE 0805 / VDE 113 safety class I / VDE 0100 / IP20 CSA-C22.2 No 107 / CSA-C22.2 No. 60950-1-03 UL Std. 60950-1 / UL Std. 508 (Operation in Delta mains only for UL508) pollution degree 2
EMC		
Mains feedback / PFC	EN 61000-3-2 Class A only with ext. PFC 12mH/4,5A/230VAC	
Interference immunity	EN 61000-6-2 / EN 61000-4-2 / EN 61000-4-3	EN 61000-6-2 / EN61204-3
Flicker	EN 61000-3-3	EN 61000-3-3
ESD	EN 61000-4-2 8/15kV	EN 61000-4-2 8/15 kV
Electrical fields	EN 61000-4-3 noise level 10V/m (Krit. A)	EN 61000-4-3 noise level 10V/m
Burst	EN 61000-4-4 4kV (Krit.A)	input: EN 61000-4-4 4 kV Ausgang: EN 61000-4-4 2 kV
Surge	EN 61000-4-5 4/2kV (Krit.A)	input: EN 61000-4-5 2/4 kV output: EN 61000-4-5 0,5 kV
HF Immunity	EN 61000-4-6 noise level 10V (Krit.A)	EN 61000-4-6 noise level 10V
Voltage drop	EN 61000-4-11	EN 61000-4-11
Interference emission	EN 61000-6-4 EN 55011 Klasse B, Radiation depends on assembly	EN 61000-6-3 / EN61204-3 EN 55022 / EN 55011 class B, Radiation depends on assembly
Operating Data		
Temperature range	-25°C...70°C integral, temperature controlled fan, air intake bottom-up	-25...+70°C integral, temperature controlled fan, air intake bottom-up
Derating	3% / K at +60°C (see chart)	2% / K at +60°C
Weight	1.0kg	2.0 kg
	Operation in any assembly position possible. The distance between the surrounding components and the air admission and air exit holes should be at least 20 mm.	Operation in any assembly position possible. The distance between the surrounding components and the air admission and air exit holes should be at least 50 mm
Mechanics		
Assembly	All systems can be snapped onto a symmetrical 35mm DIN-rail	The power supply can be directly screwed onto the wall.

Current limiting characteristics (typ.)

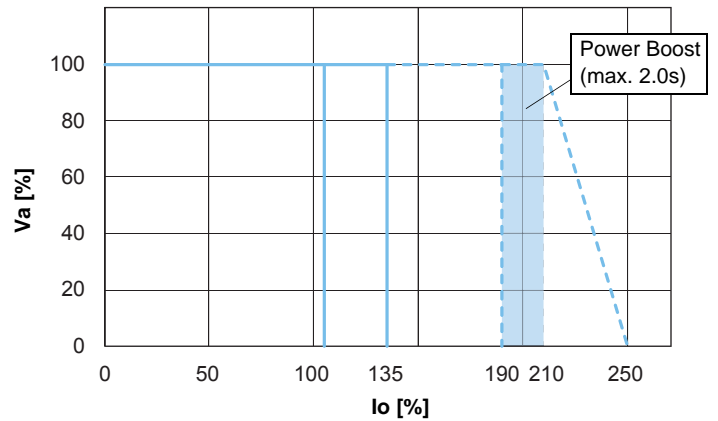
S01-72/500



Boost 500ms up to 150% I_{nom} possible, after that min. 500ms break necessary

Current limiting characteristics (typ.)

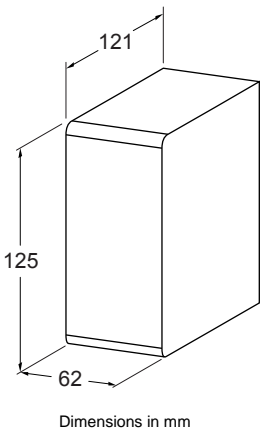
S01-72/1000



no boostbreak necessary, but the boosttime in the last 4s mustn't be longer a 2s, otherwise a boostbreak 1min is necessary (boostbreak <25ms will be not recognized)

Dimensions

S01-72/500

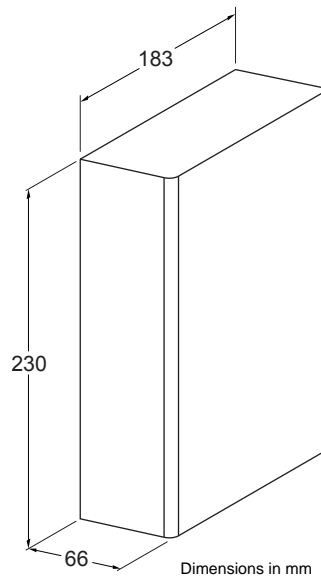


Dimensions in mm

Operation in any assembly position possible. The distance between the surrounding components and the air admission and air exit holes should be at least 20 mm. Please ensure that exhaust air is not immediately sucked in again.

Dimensions

S01-72/1000



Dimensions in mm

Operation in any assembly position possible. The distance between the surrounding components and the air admission and air exit holes should be at least 50 mm. Please ensure that exhaust air is not immediately sucked in again.

Bestellinformationen

Artikel	Beschreibung	Artikelnummer
S01-72/500	Switched-Mode Power Supply 72V/500W	0150-1874
S01-72/1000	Switched-Mode Power Supply 72V/1000W	0150-1872