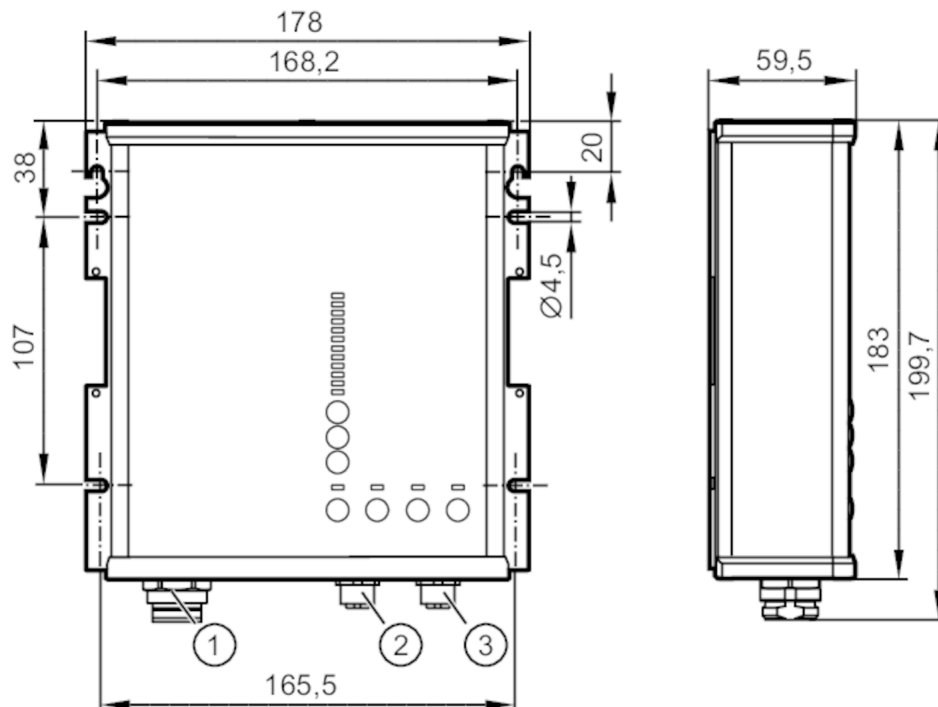


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Switched-mode power supply 24 V DC

PSU-3AC/24VDC-20A/-IIP67



- 1 power supply
- 2 Output voltage
- 3 Output voltage



Electrical data

Nominal voltage AC	[V]	400 / 480
Nominal frequency AC	[Hz]	50...60
Input voltage range AC	[V]	323...552
Output voltage DC	[V]	24...28
Protection class		I
Max. power-on delay time	[ms]	12
Output voltage tolerance	[%]	0.2
Max. output current at min. output voltage	[A]	20.8
Max. output current at max. output voltage	[A]	17.8
Output power (permanent)	[W]	500
Output power (peak)	[W]	1000
Power factor (nominal voltage 400 V AC / 50 Hz)		0.94
Power factor (nominal voltage 480 V AC / 50 Hz)		0.95
Number of output circuits		4
Switch-on peak current (nominal voltage 400 V AC / 60 Hz)	[A]	2.1



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Switch-on peak current (nominal voltage 480 V AC / 50 Hz)	[A]	2
Efficiency (nominal voltage 400 V AC / 60 Hz)	[%]	94.2
Efficiency (nominal voltage 480 V AC / 50 Hz)	[%]	94
Mains buffering time (nominal voltage 400 V AC / 60 Hz)	[ms]	24
Mains buffering time (nominal voltage 480 V AC / 50 Hz)	[ms]	24
Input current (nominal voltage 400 V AC / 60 Hz)	[A]	1.1
Input current (nominal voltage 480 V AC / 50 Hz)	[A]	0.9

Outputs

Load capacitance, total	[mF]	12.5
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Operating conditions

Ambient temperature	[°C]	-25...70
Storage temperature	[°C]	-40...85
Max. relative air humidity	[%]	95; (relative humidity)
Max. height above sea level	[m]	5000
Protection		IP 65; IP 67
Pollution degree		3

Tests / approvals

EMC	EN 61000-4-2 CD	8 kV / failure criterion A
	EN 61000-4-2 AD	15 kV / failure criterion A
	EN 61000-4-3	80 MHz...2.7 GHz / 20 V/m failure criterion A
	EN 61000-4-3	2.7 GHz...6 GHz kV / 10 V/m failure criterion A
	EN 61000-4-8	50 / 60 Hz / 30 A/m failure criterion A
	EN 61000-4-4 Burst	4 kV / failure criterion A
	EN 61000-4-5 Surge	2 kV Lx / Ly / failure criterion A
	EN 61000-4-5 Surge	4 kV L / PE / failure criterion A
	EN 61000-4-5 Surge	1 kV + / - / failure criterion A
	EN 61000-4-5 Surge	1 kV + - / PE / failure criterion A
	EN 61000-4-5 Surge	1 kV + - / PE / failure criterion A
	EN 61000-4-5 Surge	1 kV DC-OK / PE / failure criterion A
	EN 61000-4-6	0.15...80 MHz / 20 V failure criterion A
	EN 61000-4-11	0 V up to 1 cycle / failure criterion A
	EN 61000-4-11	40 % of V / 200 ms failure criterion A
	EN 61000-4-11	70 % of V / 500 ms failure criterion A
	EN 61000-4-11	0 V / 5000 ms failure criterion C
	VDE 0160	1550 V / 1.3 ms failure criterion A
	EN 55032	Class B
	EN 55032	Class B
	EN 55011	Class B
	EN 61000-3-2	
	EN 61000-3-3	

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Continuous shock resistance	IEC 60068-2-27	30 g 6 ms / 20 g 11 ms
Vibration resistance	IEC 60068-2-6	2...17.8 Hz $\pm$ 1.6mm / 17.8...500 Hz 2 g

Mechanical data

Weight	[g]	1558.8
Dimensions	[mm]	182 x 183 x 59
Materials	housing: aluminium alloy; housing cap: PC; screws: steel bronzed	

Remarks

Pack quantity	1 pcs.
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Electrical connection - Output voltage

Connector: 2 x M12; coding: L; Locking: brass



1:	US
2:	GND UA
3:	GND US
4:	UA
5:	FE

Electrical connection - power supply

Connector: 1 x 7/8"; Locking: brass



1:	L1
2:	N
3:	PE
4:	L2
5:	L3

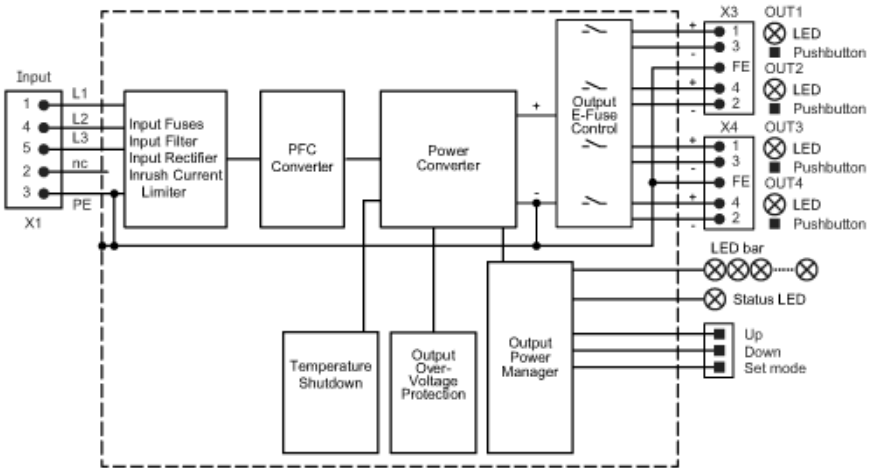


Switched-mode power supply 24 V DC

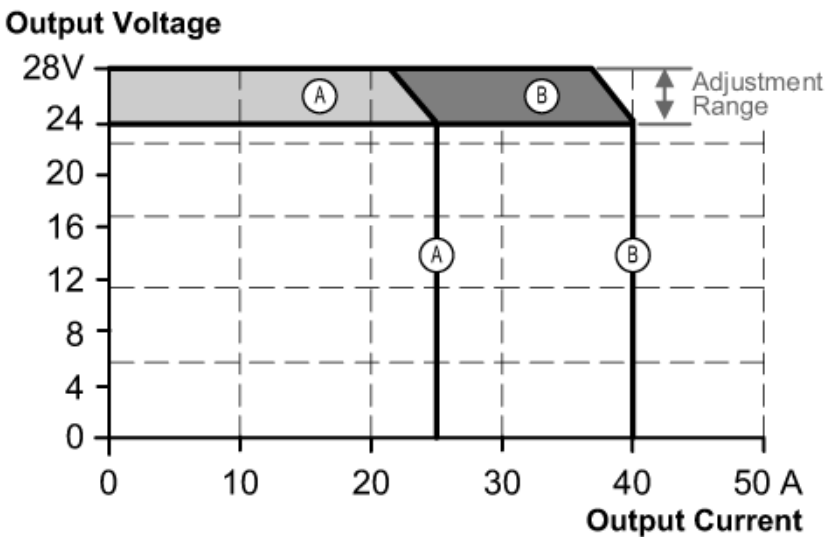
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Diagrams and graphs

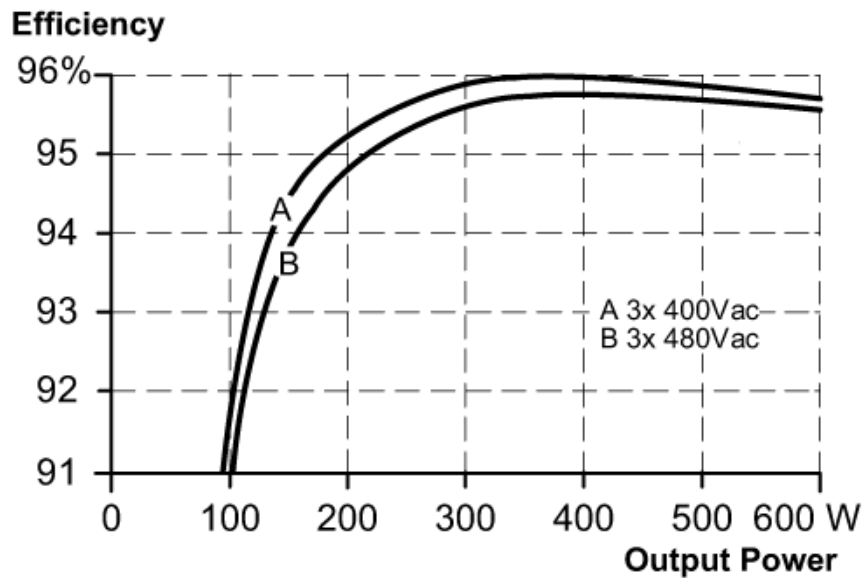
block diagram



output characteristics



characteristic curve for degree of efficiency / power loss



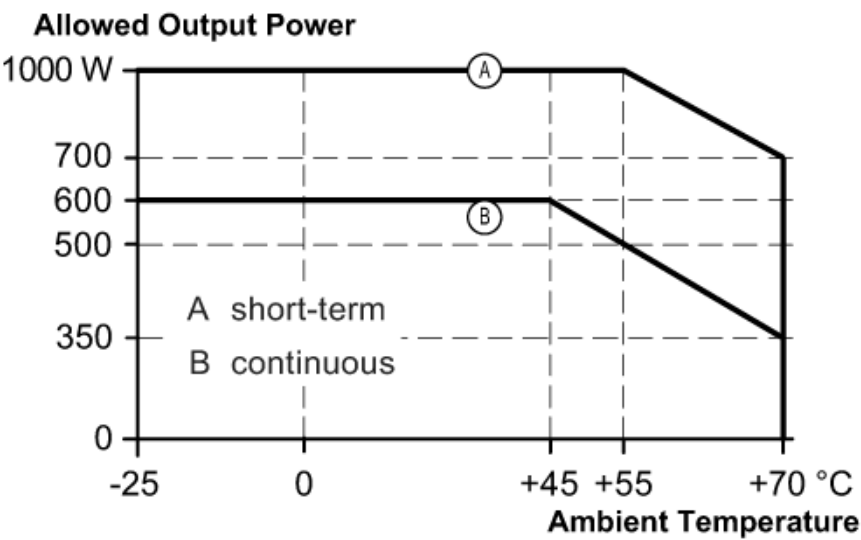
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characteristic line for derating



characteristic line for mains buffering time

