

APS Power Supply EcoPower PSU

High overload capability
Safety approvals CE, GS, UL/ULC
SELV output
Lightning protected input
High EMI immunity



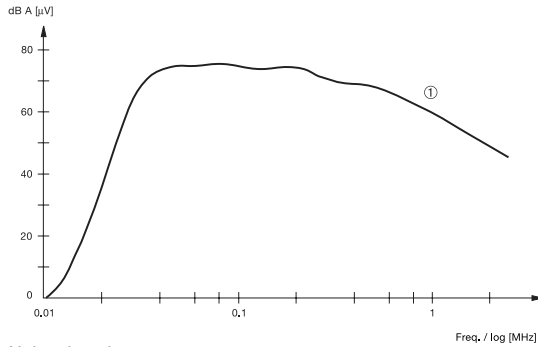
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Approvals

EN 60950 GS CE-Mark UL ULC

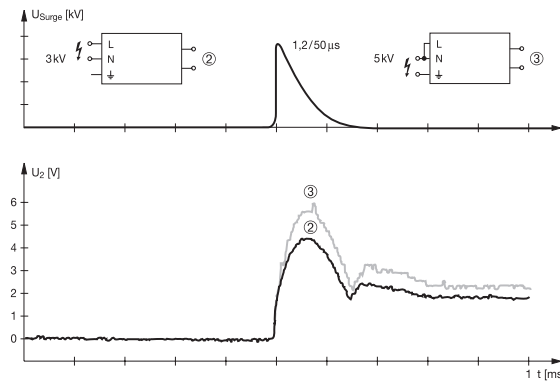
Unit / Environment

Characteristics	Conditions	Input/ housing	Input/ output	Output/ housing	Unit
Insulation test voltage	IEC 664; (1.2/50 μ s) overvoltage category 3	4	6	0.5	kV
Creepage distance	IEC 664; EN 60950 pollution degree 3	4	8	2	mm
Clearance distance	IEC 664; EN 60950	3	6	2	mm



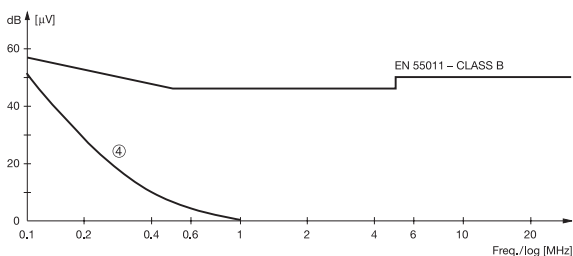
Noise damping

Characteristics	Conditions	Specifications
Protection mode	EN 60529	IP 20
Unit temperature	EN 60950	≤70° C
Ambient temperature	wall-mounted	-25° C..+50° C
	base-mounted	-25° C..+40° C
	base-mounted	-25° C..+50° C*
	storage	-25° C..+85° C
Operatin indicator	voltage on	green LED
Fuse protection	F ₁ UL198G	fuse
Connection mode		screw terminal
Parallel connection	max. 90% I ₂	
Series connection	max. 2 units	
MTBF	500 000 h	T _A = 20° C; 80% I ₂ MAX



Lightning damping

Characteristics	Standard	Test Conditions
Damp heat	IEC 68-2-30	temp.40° C; humidity 93%; cycles 21; variant 1
Schock	IEC 68-2-27	half-sine pulse; amplitude 30 g; time 18ms
Vibration	IEC 68-2-6	amplitude 2 g; f=10..150Hz; cycles 20
EMV: emission	EN 50081-1 EN 55011	class B ④
EMV: immunity	EN 50082-2 IEC 801-5	② and ③
Safety class I	EN 60950	
SELV output	EN 60950	SELV: Safety extra-low voltage circuit
Safety isolating transformer	EN 60742; IEC 742	(VDE 551)



Radio interference

* Unit temperature may rise above 70° C

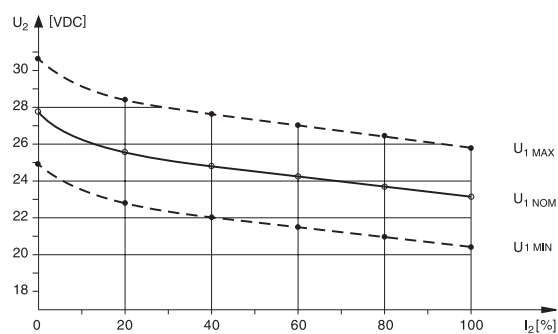
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Input

Characteristics	Symbol	Conditions	Min.	Nom.	Max.	Unit
Input voltage 230 VAC version	U_1	AC	207	230	253	VAC
Input voltage 115 VAC version	U_1	AC	103	115	127	VAC
Frequency	f_1			50..60		Hz

Output

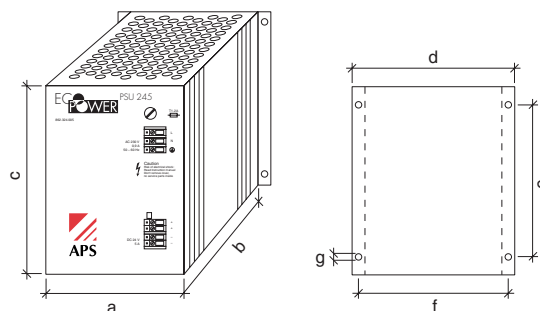
Characteristics	Symbol	Conditions	Min.	Nom.	Max.	Unit
Voltage	U_2	70 % $I_{2 \text{ MAX}}$		24		VDC
Current	I_2	continuous			I_2	ADC
Short-time overload current	I_{OV2}	on request				
Ripple	U_{eff2}/U_2	$U_{1 \text{ NOM}}; I_{2 \text{ MAX}}$			3	%
Efficiency	η	$U_{1 \text{ NOM}}; I_{2 \text{ MAX}}$		75		%
Derating		$T_A > 50^\circ \text{C}$		2.5		%/ $^\circ \text{C}$
Noise damping ①		$U_{1 \text{ NOM}}; I_{2 \text{ MAX}}$ $f = 30 \text{ kHz}..600 \text{ kHz}$	60			dB



Characteristic

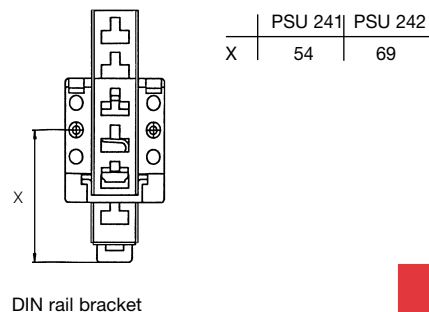
Dimensions

Type	a	b	c	d	e	f	g	Weight kg
1A / 230 VAC	104	81	94	128	70	115	4.8	1.2
2.5A / 230 VAC	125	96	109	151	80	140	4.8	2.4
2.5A / 115 VAC	125	96	109	151	80	140	4.8	2.4
5A / 230 VAC	119	133	167	139	130	130	5.5	4.3
5A / 115VAC	119	133	167	139	130	130	5.5	4.3
10A / 230 VAC	155	158	184	192	155	175	7.0	8.6
10A / 115 VAC	155	158	184	192	155	175	7.0	8.6



Order informations / discontinued not all versions available

Output current I_2 / Input voltage U_1	Part number	Type
1A/230 VAC	862.324.001	PSU 241
2.5A/230 VAC	862.324.003	PSU 242
2.5A/115VAC	862.324.004	PSU 242
5A/230 VAC	862.324.005	PSU 245
5A/115 VAC	862.324.006	PSU 245
10A/230 VAC	862.324.010	PSU 2410
10A/115 VAC	862.324.011	PSU 2410
	862.324.000	DIN rail bracket



Reliability

Increased safety for human and installation and a high lightning immunity were the primary development goals of the EcoPower PSU family.

As a result, EcoPower PSU effectively protects your installation and devices against mains disturbances and over-voltage peaks. Extended durability and much lower breakdown risk are the direct benefit of selecting EcoPower PSU.



- Lightning protected input
- Max. +20° C temperature increase (housing)
- Proven 50 Hz technology for rough environments
- Long operational life and availability
- MTBF 500 000 h

Immunity

Voltage peaks and high frequency interferences are well known sources of trouble in electrical installations. EcoPower PSU effectively filters and dampens such noise. It meets the EMI standards and it even achieves a higher-grade radio interference class that makes it suitable for building automation and living area applications. EcoPower PSU stands for a trouble-free service to the end-user.



- Function as a mains filter
- Radio interference class B
- High EMC immission immunity
- CE conformity according to EMC regulations

Approved safety

The robust aluminum housing and its protection against accidental contact make EcoPower a favourite for both living area and rough industrial applications. You benefit from approved safety for human and installation by choosing EcoPower PSU.



- Safety approvals CE, GS, UL/ULC
- SELV output (safety extra low voltage circuit)
- No high temperature resistant cable required for wiring
- Protection class IP 20
- Industrial usage up to pollution class 3

