

# Single-Phase Switching Power Supply

## 120-230 Vac, 72 W Output Power

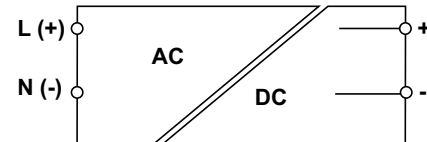
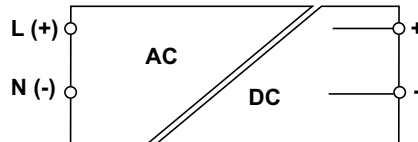
### XCSD1072W

- Single phase and DC input
- Short circuit, overload, input and output overvoltage protections
- Over temperature protection
- Suitable for standard applications
- Isolation Class 2, no grounding needed



**NOTE**

Please refer to the datasheet for more details  
Above overcurrent limit, the protection starts cycling in ON/OFF mode(hiccup autoreset), the maximum current supplied depends by the line resistance



CODE	XCSD1072W024VAA	XCSD1072W012VAA
<b>TYPE</b>	CSD1-072W/024V/AA	CSD1-072W/012V/AA
<b>INPUT TECHNICAL DATA</b>		
Input rated voltage	120-230 Vac	120-230 Vac
Input voltage AC	85...264 Vac	85...264 Vac
Input voltage DC	100...370 Vdc (derating Uin<130 Vdc)	100...370 Vdc (derating Uin<130 Vdc)
Frequency	47...63 Hz	47...63 Hz
Current consumption	1.17 A (120 Vac) / 0.71 A (230 Vac)	1.17 A (120 Vac) / 0.71 A (230 Vac)
Inrush peak current	15 A	15 A
Power factor	> 0.6	> 0.6
Internal protection fuse	T 2 A	T 2 A
External protection on AC line	MCB: C-3 A / Fuse: T-3 A	MCB: C-3 A / Fuse: T-3 A
<b>OUTPUT TECHNICAL DATA</b>		
Output rated voltage	24 Vdc ±1%	12 Vdc ±1%
Output adjustable range	23.5... 27.5 Vdc	12...15 Vdc
Continuous current	3 A at 55°C	6...4 A at 55°C
Overload limiting	4.5 A	8.0 A
Short circuit peak current	—	—
Ripple I <sub>R</sub> nominal ratings	50 mVpp	50 mVpp
Hold up time	12 ms (120 Vac) / 20 ms (230 Vac)	12 ms (120 Vac) / 20 ms (230 Vac)
Status indication	LED "DC OK"	LED "DC OK"
Alarm contact	—	—
Parallel connection	possible	possible
Redundant parallel connection	possible with external ORing diode	possible with external ORing diode
<b>GENERAL TECHNICAL DATA</b>		
Efficiency	89% (230 Vac)	89% (230 Vac)
Dissipated power	9.6 W (120 Vac) / 7.9 W (230 Vac)	10 W (120 Vac) / 8.5 W (230 Vac)
Operating temperature range	-20...+70°C (derating -2.6 W >55°C)	-20...+70°C (derating -1.8 W >50°C)
Input / output isolation	3 kVac / 60 s (SELV output)	3 kVac / 60 s (SELV output)
Input / ground isolation	class 2 without PE connection	class 2 without PE connection
Output / ground isolation	class 2 without PE connection	class 2 without PE connection
Standard / approvals	EN 60950-1, EN 62368-1	EN 60950-1, EN 62368-1
EMC Standards	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4
Overvoltage category / Pollution degree	II / 2	II / 2
Protection degree	IP 20	IP 20
Connection terminal IN/OUT	2.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup>	2.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
Housing material	UL94V-0 plastic material	UL94V-0 plastic material
Dimension	71x62x90 mm	71x62x90 mm
Approximate weight	229 g	229 g
Mounting information	vertical on a rail, 10 mm from adjacent components	vertical on a rail, 10 mm from adjacent components
<b>APPROVALS</b>	CE, UL, C-UL, US	CE, UL, C-UL, US
<b>ACCESSORIES</b>		
Mounting rail (IEC60715/TH35-7.5)	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB
Mounting rail (IEC60715/TH35-15)	PR/3/PP, PR/3/PP/ZB, PR/3/PA, PR/3/PA/ZB	PR/3/PP, PR/3/PP/ZB, PR/3/PA, PR/3/PA/ZB
Marking tag	—	—