

Single-phase switching power supply with power up to 70W for use in civil and industrial automation applications. The technical and design characteristics of the housing, with standard modular DIN measurements for installation in control units were planned to optimise use in home automation. The performance level and compact size also make it an excellent solution for electrical panels and shallow containers.

High output and a contained working temperature support energy savings and longer component life.

**Suggested uses**

- Industrial automation applications
- Civil automation applications
- General applications in systems installed using small remote panels

**Main features**

- The 90...264 Vac and 110...370 Vdc inputs, make it suitable for use on all power supply networks.
- These are Isolation Class 2 power supplies that do not require a grounding connection, which reduces the times and costs of installation in remote panels and surveillance and monitoring systems.
- Their high efficiency reduces energy consumption and operating temperature and allows for use in small housings.
- The large power reserve allows continuous current to be supplied up to at least +50% higher than the rated value, ensuring safety and reliability.
- Short-circuit and overload protection designed to deliver peak currents more than 150% higher than the rated value required by heavy loads.
- Thermal protection prevents failure in cases of prolonged overload at high ambient temperatures.
- Thanks to the high performance and excellent ventilation of internal components, they are greatly reduced in size and have a degree of protection from accidental contacts of IP20 per IEC529.

DOMOTIC POWER



**Compact size**

Ideal for modular control units and shallow containers

**Short-circuit and overload protection**

Designed to deliver the typical peak currents required by medium loads

**Power boost**

The output power supplied reaches up to 130% of the rated value

**High efficiency**

Designed to save energy and reduce operating temperature

**Input 90...264 Vac and 110...370 Vdc**

Appropriate for use on all power supply networks

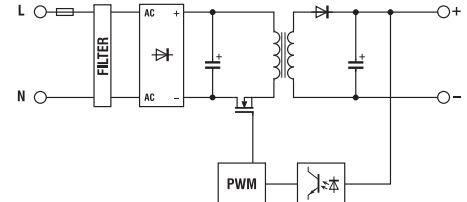
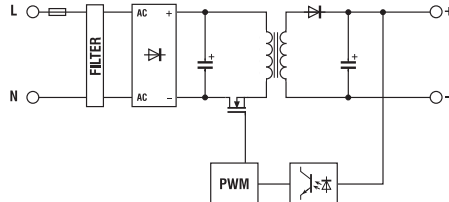


- Single phase and DC input
- Short circuit, overload, input and output overvoltage protections
- Over temperature protection
- Suitable for standard applications
- Isolation Class 2, no grounding needed



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



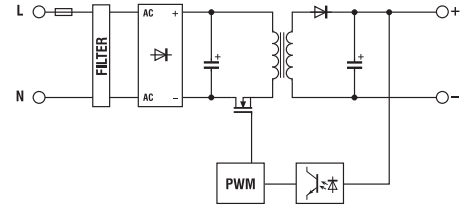
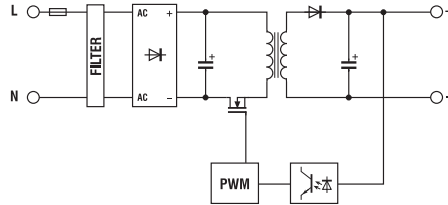
CODE TYPE	XCS1015W024VAA	XCS1015W012VAA
<b>INPUT TECHNICAL DATA</b>	<b>CSD1-015W/024V/AA</b>	<b>CSD1-015W/012V/AA</b>
Input rated voltage	120–230 Vac	120–230 Vac
Input voltage AC	85...264 Vac	85...264 Vac
Input voltage DC	100...370 Vdc (derating Uin<130 Vdc)	100...370 Vdc (derating Uin<130 Vdc)
Frequency	47...63 Hz	47...63 Hz
Current consumption	0.29 A (120 Vac) / 0.18 A (230 Vac)	0.29 A (120 Vac) / 0.18 A (230 Vac)
Inrush peak current	5 A	5 A
Power factor	> 0.6	> 0.6
Internal protection fuse	T 1 A	T 1 A
External protection on AC line	MCB: C-2 A / Fuse: T-2 A	MCB: C-2 A / Fuse: T-2 A
<b>OUTPUT TECHNICAL DATA</b>		
Output rated voltage	24 Vdc ±1%	12 Vdc ±1%
Output adjustable range	—	—
Continuous current	0.6 A at 60°C	1.2 A at 60°C
Overload limiting	0.81 A	1.6 A
Short circuit peak current	—	—
Ripple @ 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	86% (120 Vac) / 86% (230 Vac)	84% (120 Vac) / 85% (230 Vac)
Dissipated power	2.2 W (120 Vac) / 2.2 W (230 Vac)	2.7 W (120 Vac) / 2.6 W (230 Vac)
Operating temperature range	-20...+70°C (derating -0.9 W >60°C)	-20...+70°C (derating -0.9 W >60°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	35x62x90 mm	35x62x90 mm
Approximate weight	130 g	130 g
Mounting information	vertical on a rail, 10 mm from adjacent components	vertical on a rail, 10 mm from adjacent components
<b>APPROVALS</b>		
<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	—	—

- 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



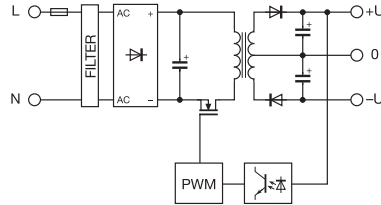
CODE TYPE	CSD1-030W/024/AA	XCSD1030W024AA	CSD1-030W/012/AA	XCSD1030W012AA
<b>INPUT TECHNICAL DATA</b>				
Input rated voltage	120-230 Vac		120-230 Vac	
Input voltage AC	85...264 Vac		85...264 Vac	
Input voltage DC	100...370 Vdc (derating Uin<130 Vdc)		100...370 Vdc (derating Uin<130 Vdc)	
Frequency	47...63 Hz		47...63 Hz	
Current consumption	0.56 A (120 Vac) / 0.34 A (230 Vac)		0.56 A (120 Vac) / 0.34 A (230 Vac)	
Inrush peak current	5 A		5 A	
Power factor	> 0.6		> 0.6	
Internal protection fuse	T 3.15 A		T 3.15 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	—		—	
Continuous current	1.25 A at 50°C		4A (5V), 2.9A (10V), 2.5A (12V), 2.0A (15V) at 55°C	
Overload limiting	2.0 A		6.9...3.0 A	
Short circuit peak current	—		—	
Ripple @ 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	88% (120 Vac) / 87% (230 Vac)		87% (120 Vac) / 86% (230 Vac)	
Dissipated power	4 W (120 Vac) / 3.9 W (230 Vac)		4.1 W (120 Vac) / 4 W (230 Vac)	
Operating temperature range	-20...+70°C (derating -1.2 W >50°C)		-20...+70°C (derating -1.2 W >55°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	53x62x90 mm		53x62x90 mm	
Approximate weight	130 g		130 g	
Mounting information	vertical on a rail, 10 mm from adjacent components		vertical on a rail, 10 mm from adjacent components	
<b>APPROVALS</b>				
<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	—		—	

- Single phase and DC input
- Short circuit, overload and input overvoltage protection
- 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



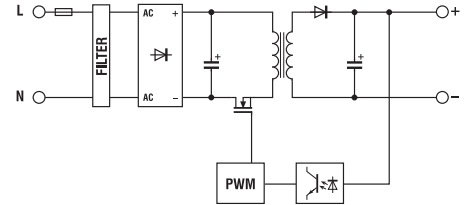
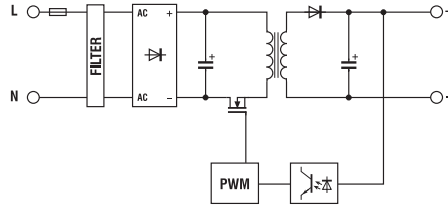
CODE TYPE	CSD30F	XCSD30F
<b>INPUT TECHNICAL DATA</b>		
Input rated voltage	120–230 Vac	
Input voltage AC	90...264 Vac	
Input voltage DC	100...345 Vdc [derating Uin<130 Vdc]	
Frequency	47...63 Hz	
Current consumption	0.4 A (120 Vac) / 0.2 A (230 Vac)	
Inrush peak current	13 A	
Power factor	> 0.6	
Internal protection fuse	T 2 A	
External protection on AC line	MCB: C-3 A / Fuse: T-3.15 A	
<b>OUTPUT TECHNICAL DATA</b>		
Output rated voltage	±12...±15 Vdc ±1%	
Output adjustable range	±12...±15 Vdc	
Continuous current	2x 0.6 A at 50°C	
Overload limiting	>2x0.8 A	
Short circuit peak current	—	
Ripple @ nominal ratings	50 mVpp	
Hold up time	50 ms (120 Vac) / 100 ms (230 Vac)	
Status indication	LED "DC OK"	
Alarm contact	—	
Parallel connection	possible	
Redundant parallel connection	possible with external ORing diode	
<b>GENERAL TECHNICAL DATA</b>		
Efficiency	87% (120 Vac) / 89% (230 Vac)	
Dissipated power	1.6 W (120 Vac) / 1.3 W (230 Vac)	
Operating temperature range	-20...+60°C (derating -0.4 W >55°C)	
Input / output isolation	3 kVac / 60 s (SELV output)	
Input / ground isolation	class 2 without PE connection	
Output / ground isolation	class 2 without PE connection	
Standard / approvals	EN 60950-1	
EMC Standards	EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4	
Overvoltage category / Pollution degree	II / 2	
Protection degree	IP 20	
Connection terminal IN/OUT	2.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup>	
Housing material	UL94V-0 plastic material	
Dimension	71x62x90 mm	
Approximate weight	200 g	
Mounting information	vertical on a rail, 10 mm from adjacent components	
APPROVALS		
<b>ACCESSORIES</b>		
Mounting rail (IEC60715/TH35-7.5)	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	
Marking tag	—	

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



NOTE

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Above overcurrent limit, the protection starts cycling in ON/OFF mode(hiccup autoreset), the maximum current supplied depends by the line resistance



CODE TYPE	CSD1-072W/024/AA	XCSD1072W024AA	CSD1-072W/012/AA	XCSD1072W012AA
<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 1 A		T 1 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		5...4 A at 55°C	
Overload limiting	4.5 A		8.0 A	
Short circuit peak current	–		–	
Ripple @ 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	130 g		130 g	
Mounting information	vertical on a rail, 10 mm from adjacent components		vertical on a rail, 10 mm from adjacent components	
<b>APPROVALS</b>				
<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	–		–	