

## ***NEW PRODUCTS***



### **1-2-Phase Switching Power Supply CSE2 series**

<b>Model</b>	<b>CSE2-060W/024V/AA</b>
<b>Code</b>	<b>XCSE2060W024VAA</b>
<b>Description</b>	1-2-phase switch mode power supply
<b>Input</b>	1-2x 180...550 Vac / 254...780 Vdc
<b>Output</b>	24 Vdc 2.5 A

The new **CSE2 range** is part of the **Easy Power series**, which includes industrial power supplies designed for standard applications that offer an **excellent price/performance ratio**.

The technological solutions applied, and the new metal enclosure ensure excellent ventilation, increased component lifespan, and a reduction in costs and space requirements, **but its main feature is the ability to be powered both in a single-phase and a two-phase network, within a particularly wide voltage range**. The input circuit technology makes them **more resistant to overvoltage** caused by faults in three-phase networks with neutral, increasing the reliability of the application. Compared to single-phase power supplies, the **CSE2 series** has greater reliability in industrial environments.

The input stage uses components with higher working voltage compared to single-phase power supplies, making them more resistant to voltage spikes present in industrial networks.

The ability to operate from 180 to 550 Vac **allows these power supplies to be used in both 230V single-phase networks and 220-400V two-phase or three-phase networks**.

Additionally, **it can also be powered with a DC voltage** from 254V to 780V, making it suitable for battery-powered applications or photovoltaic sector applications.

The range is completed by versions from 5A (120W) up to 20A (480W).

The series also includes:

- **CSE1 Series:** Single-phase power supplies 90...264 Vac from 0.42 A to 40 A
- **CSE2 Series:** Single-phase and two-phase power supplies 180...550 Vac from 2.5 A to 20 A
- **CSE3 Series:** Three-phase power supplies 340...550 Vac from 10 A to 40 A

### Main Features

- **Wide Input Range 180...550Vac** can be powered by single-phase or two-phase 208...550 Vac for maximum adaptability to AC networks, eliminating the need for an isolation transformer.
- **Two-Phase Input** compared to a three-phase input, it reduces size, wiring, installation costs, and space occupied in the panel.
- **DC Power Supply Capability**
- Versions with **DC OK Alarm Contact**
- **High Efficiency** reduces energy consumption and component operating temperature, allowing use in small panels and harsh environmental conditions.
- **Short Circuit and Overload Protection** designed to provide inrush currents over 140% of the nominal value, required by heavy loads.
- The new enclosure ensures **excellent ventilation** of internal components, very compact size, and IP20 protection against accidental contact according to IEC529.

**High Efficiency** and Good Ventilation: Make them among the smallest on the market.

### Applications

- Industrial automation and process control
- Where maximum flexibility is required for use in single-phase or three-phase networks
- Where network fluctuations could compromise output stability
- Automation and alarm and remote-control installations
- Photovoltaic sector applications with DC power supplies

### Products from the same series

Codice	Sigla	Descrizione
XCSE2060W012VAA	CSE2-060W/012V/AA	1-2-phase 180...550Vac / 12Vdc 5 A
XCSE2060W024VAA	CSE2-060W/024V/AA	1-2-phase 180...550Vac / 24Vdc 2.5 A
XCSE2120W012VAA	CSE2-120W/012V/AA	1-2-phase 180...550Vac / 12Vdc 10 A
XCSE2120W024VAA	CSE2-120W/024V/AA	1-2-phase 180...550Vac / 24Vdc 5 A
XCSE2120W048VAA	CSE2-120W/048V/AA	1-2-phase 180...550Vac / 48Vdc 2.5 A
XCSE2240W024VAA	CSE2-240W/024V/AA	1-2-phase 180...550Vac / 24Vdc 10 A
XCSE2240W048VAA	CSE2-240W/048V/AA	1-2-phase 180...550Vac / 48Vdc 5 A
XCSE2480W024VAA	CSE2-480W/024V/AA	1-2-phase 180...550Vac / 24Vdc 20 A
XCSE2480W048VAA	CSE2-480W/048V/AA	1-2-phase 180...550Vac / 48Vdc 10 A

### Cabur: Reliable Since 1952

For over 70 years, Cabur has been developing and manufacturing a wide variety of products for the electronics and electrotechnical industries, renowned for their reliability even under extreme conditions. In addition to the production of terminal blocks, the company's core business, Cabur has expanded over time to include products for automation and control, installation, industrial marking systems, and innovative solutions for photovoltaic systems and energy transition. Today, the company offers over 4,000 products and features a skilled technical team dedicated to customer service.

**Technical data sheet**

<b>SERIES</b>	
Code	XCSE2060W024VAA
Type	CSE2-060W/024V/AA
<b>INPUT TECHNICAL DATA</b>	
Input rated voltage	1-2x 230-400 Vac
Input voltage AC	180...550 Vac
Input voltage DC	254...780 Vdc
Frequency	47...63 Hz
Current consumption	0.4 A (400 Vac) / 0.8 A (230 Vac)
Inrush peak current	50 A (400 Vac)
Power factor	>0.50 (230 Vac) / >0.43 (400 Vac)
<b>OUTPUT TECHNICAL DATA</b>	
Output voltage range	24 Vdc
Output adjustable range	24...29 Vdc
Continuous current	2.5 A
Overload limiting	3.5 A
Short circuit peak current	30 A for 100 ms
Ripple @ nominal ratings	150 mVpp
Hold up time	10 ms (230 Vac) / 20 ms (400 Vac)
Status indication	LED "DC OK"
Alarm contact	dry contact, max. 1 A
<b>GENERAL TECHNICAL DATA</b>	
Efficiency	88% (230 Vac) / 88% (400 Vac)
Dissipated power	9 W (230 Vac) / 9 W (400 Vac)
Operating temperature range	-30°C...+70°C (derating -3 W/°C >60°C)
Input / output isolation	4.7 kVac / 60 s
Input / ground isolation	2.4 kVac / 60 s
Output / ground isolation	0.5 kVac / 60 s
Standard / approvals	EN 62368-1, UL61010
EMC Standard	EN 55032, EN/IEC 61000-3-2,3, EN 61000-4-2,3,4,5,6,8,11
Overvoltage category / pollution degree	II / 2
Protection degree	IP 20
Connection terminal	2.5 mm <sup>2</sup> / 2.5 mm <sup>2</sup>
Housing material	aluminium, steel
Dimensions (LxHxD)	32 x 125 x 100.5 mm
Approximate weight	0.45 Kg
Mounting information	vertical on a rail, distance from adjacent components: 40 mm top and bottom, 10 mm left and right
<b>APPROVALS AND MARKINGS</b>	
	CE, UKCA, UL