



Representative Image

## Catalog No. 1SVR427032R0000

**Description:** CP-E 24/2.5 Power supply In:100-240VAC Out: 24VDC/2.5A

**UPC No** 4016779656887

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The CP-E 24/2.5 is a power supply from the CP-E range. The primary switch mode power supply offers a wide range input of 85-264 V AC and 90-375 V DC, rated input voltage is 100-240 V AC. The rated output power is 60 W, rated output current is 2.5 A at an output voltage of 24 V DC. The output voltage is adjustable within a range of 24 to 28 V DC. The power supply provides a U/I output characteristic and allows parallel operation to enable redundancy. A further feature is the signalling output (transistor) for output voltage OK. A redundancy unit is available as accessory.

### Descriptors

Category

Power Supplies

### Specifications

|                                    |                                                                                                                                                                                    |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Main Type                  | CP-E                                                                                                                                                                               |
| Number of phases                   | 1                                                                                                                                                                                  |
| Input Voltage                      | 85 ... 264 V AC<br>90 ... 375 V DC                                                                                                                                                 |
| Output Voltage                     | 24 V DC                                                                                                                                                                            |
| Output Current                     | 2.5 A                                                                                                                                                                              |
| Output Power                       | 60 W                                                                                                                                                                               |
| Function                           | Switch mode power supply                                                                                                                                                           |
| Rated Input Voltage                | 100 ... 240 V AC                                                                                                                                                                   |
| Rated Frequency Limits             | 47 ... 63 Hz                                                                                                                                                                       |
| Characteristic of Output           | U/I characteristic curve                                                                                                                                                           |
| Rated Output Power                 | 60 W                                                                                                                                                                               |
| Rated Output Voltage               | 24 V DC                                                                                                                                                                            |
| Rated Output Current               | 2.5 A                                                                                                                                                                              |
| Rated Insulation Voltage           | Input Circuit 3 V<br>Output Circuit 3 V<br>Input Circuit 2 V<br>PE 2 V                                                                                                             |
| Degree of Protection               | Housing<br>Terminals IP20<br>IP20                                                                                                                                                  |
| Pollution Degree                   | 2                                                                                                                                                                                  |
| Connecting Capacity Input Circuit  | Flexible with Ferrule 0.2 ... 2.5 mm <sup>2</sup><br>Rigid 0.2 ... 2.5 mm <sup>2</sup>                                                                                             |
| Connecting Capacity Output Circuit | Flexible with Ferrule 0.2 ... 2.5 mm <sup>2</sup><br>Rigid 0.2 ... 2.5 mm <sup>2</sup>                                                                                             |
| Tightening Torque                  | Input Circuit 0.6 N-m<br>Output Circuit 0.6 N-m                                                                                                                                    |
| Wire Stripping Length              | Input Circuit 6 mm<br>Output Circuit 6 mm                                                                                                                                          |
| Minimum Mounting Distance          | Electrical Conductive Board, Horizontal 25 mm<br>Electrical Conductive Board, Vertical 25 mm<br>Other Device Same Type, Horizontal 25 mm<br>Other Device Same Type, Vertical 25 mm |
| Mounting Position                  | Position 1                                                                                                                                                                         |
| Mounting on DIN Rail               | TH35-7.5 (35 x 7.5 mm Mounting Rail) acc. to IEC 60715<br>TH35-15 (35 x 15 mm Mounting Rail) acc. to IEC 60715                                                                     |

**by ABB**

## Specifications

|                                           |                                                                                                                                                                                                                          |
|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standards                                 | ANSI/ISA-12.12<br>CAN/CSA C22.2 No.107.1<br>CAN/CSA C22.2 No.213<br>CAN/CSA C22.2 No.223<br>CAN/CSA C22.2 No.60950<br>EN 50581<br>IEC/EN 60950-1<br>IEC/EN 61000-6-2<br>IEC/EN 61000-6-3<br>UL 1310<br>UL508<br>UL 60950 |
| Ambient Air Temperature                   | Operation -40 ... +70 °C<br>Storage -40 ... +85 °C                                                                                                                                                                       |
| RoHS Status                               | Following EU Directive 2011/65/EU                                                                                                                                                                                        |
| Connecting Capacity Input Circuit UL/CSA  | Rigid 24-14 AWG                                                                                                                                                                                                          |
| Connecting Capacity Output Circuit UL/CSA | Rigid 24-14 AWG                                                                                                                                                                                                          |
| Tightening Torque UL/CSA                  | Input Circuit 5 in-lb<br>Output Circuit 5 in-lb                                                                                                                                                                          |
| Object Classification Code                | T                                                                                                                                                                                                                        |

## Classifications

|          |                            |
|----------|----------------------------|
| ETIM 4   | EC002540 - DC-power supply |
| ETIM 5.0 | EC002540 - DC-power supply |
| ETIM 6.0 | EC002540 - DC-power supply |
| ETIM 7   | EC002540 - DC-power supply |

## Dimensions

|                            |          |
|----------------------------|----------|
| Product Net Width          | 40.5 mm  |
| Product Net Height         | 90 mm    |
| Product Net Depth / Length | 114 mm   |
| Product Net Weight         | 0.331 kg |

## Package Information

|                                |               |
|--------------------------------|---------------|
| Package Level 1 Width          | 132 mm        |
| Package Level 1 Depth / Length | 154 mm        |
| Package Level 1 Height         | 58 mm         |
| Package Level 1 Gross Weight   | 0.4 kg        |
| Package Level 1 EAN            | 4016779656887 |
| Package Level 1 Units          | 1 piece       |

## Ordering

|                        |          |
|------------------------|----------|
| Minimum Order Quantity | 1        |
| Customs Tariff Number  | 85044090 |
| ECCN                   | N        |
| ECN                    | N        |

## Electromagnetic Compatibility

|                                                              |                                                               |
|--------------------------------------------------------------|---------------------------------------------------------------|
| Electrostatic Discharge (ESD Immunity) acc. to IEC 61000-4-2 | Level 4 Air Discharge 15 kV<br>Level 4 Contact Discharge 8 kV |
|--------------------------------------------------------------|---------------------------------------------------------------|

## Electromagnetic Compatibility

|                                                                  |                                                          |
|------------------------------------------------------------------|----------------------------------------------------------|
| Radiated Electromagnetic Field Immunity acc. to IEC 61000-4-3    | Level 3 10 V/m                                           |
| Electrical Fast Transient (Burst Immunity) acc. to IEC 61000-4-4 | Level 4 Power Supply Port Signal 4 kV                    |
| Surge Immunity acc. to IEC 61000-4-5                             | Level 3 Line-to-Line 2 kV<br>Level 4 Line-to-Ground 4 kV |
| Conducted Disturbances Immunity acc. to IEC 61000-4-6            | Level 3 10 V                                             |
| Electromagnetic Compatibility (EMC)                              | Immunity - Class B<br>Emission - Class B                 |