



# Micro Power

SWITCHING MODE POWER SUPPLY

Sanstar Microsystems Private Limited

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## DATA SHEET

Model No: 2030DCDC2402

Ordering Code: 2030DCDC2402

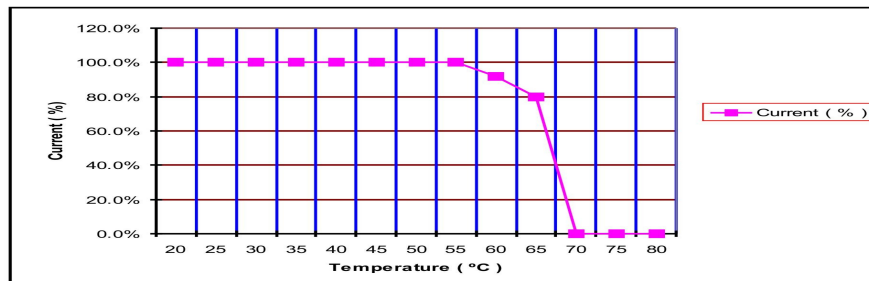
Isolated DC-DC Converter

Input 20 – 30 VDC: Output 24 VDC @ 02 A.

### Features:

- Latest state of -the -art current mode PWM Controller and MOSFET based design.
- Maximum output power of 50W.
- High efficiency, High reliability, Low cost.
- DC input voltage range 20V - 30V DC.
- Low Ripple and Noise.
- Screw type input and output connectors.
- Compact, light weight.
- Overload Protection auto recovery type.
- Short circuit protection auto recovery type.
- OVP Protection Latching type.
- Over Temperature Protection.
- Precise current limit with CCCV characteristics.
- 100% Full load burn-in test.

### Derating Curve for 2030DCDC2402.



## Specifications:

### \* Input Characteristics

|                   |  |
|-------------------|--|
| Input Voltage     | 20V - 30V DC.  |
| Input Connector   | 2-pin plug in screw type connector.                    |
| Indication        | Input Ok - Yellow colour LED.                          |
| Input Protections | a) Fuse protection.<br>b) Reverse polarity protection. |

### \* Output Characteristics

|                          |   |
|--------------------------|---|
| Output Voltage           | 24 VDC.   |
| Output Current           | 02 A.   |
| Max. Output Power        | 50 W.   |
| Output Connector         | 2-pin plug in screw type connector.   |
| Output Indications       | a) Output Ok - Green colour LED.<br>b) OVP - Red colour LED.<br>c) OT - Orange colour LED.  |
| Output Protections       | a) Over Voltage Protection latching type.<br>b) Over temperature protection.<br>c) Overload Protection auto recovery type.<br>d) Short circuit protection auto recovery type. |
| Output Feature           | Redundant diode (Optional).   |
| Line Regulation          | < +/- 0.5%.   |
| Load Regulation          | < +/- 0.5%.   |
| Ripple and Noise         | < +/- 1% P-P.   |
| Input / Output Isolation | 1KV.  |

### \* Environmental Characteristics

|                       |  |
|-----------------------|--|
| Operating Temperature | 55 °C at Full Load and 70°C at 60% load. |
| Cooling               | By free air convection.                  |
| Relative Humidity     | 95% NC.                                  |

### \* General Characteristics

|                                    |                        |
|------------------------------------|------------------------|
| Efficiency without Redundant Diode | 80% or above.          |
| Hold Time                          | > 20mSec on full load. |
| Dimension (L X W X H) mm           | 150 X 80 X 55.         |
| Mounting                           | Panel Mounting.        |

Note:

- 1) All these parameters are specified at 24V DC input.
- 2) For continuous improvement, specifications are subject to change without prior intimation.