



# Micro Power

SWITCHING MODE POWER SUPPLY

Sanstar Microsystems Private Limited

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## DATA SHEET

Model No: 2030DCDC4810

Ordering Code: 2030DCDC4810

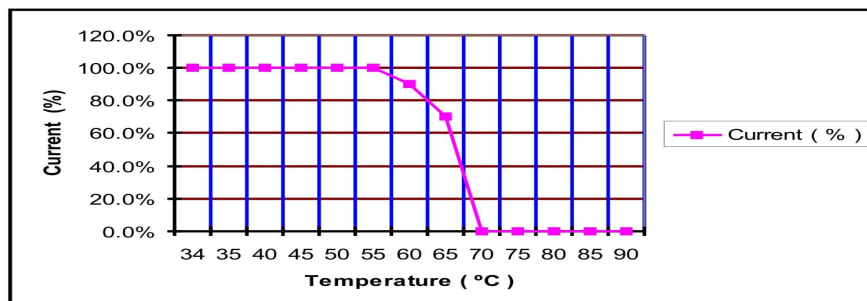
Isolated DC-DC Converter

Input 20 – 30 VDC: Output 48 VDC @ 10 A.

### Features:

- Latest state of -the -art current mode PWM Controller and MOSFET based design.
- Maximum output power of 500W.
- 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 2030DCDC4810.



## Specifications:

### \* Input Characteristics

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

### \* Output Characteristics

Output Voltage	48 VDC.
Output Current	10 A.
Max. Output Power	500 W.
Output Connector	2-pin screw type connector.
Output Indications	a) Output Ok - Green colour LED. b) OVP - Red colour LED. c) OT - Orange colour LED.
Output Protections	a) Over Voltage Protection latching type. b) Over temperature protection. c) Overload Protection auto recovery type. 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	Forced Cooling.
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	235 X 195 X 100.
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.