



# Micro Power

SWITCHING MODE POWER SUPPLY

Sanstar Microsystems Private Limited

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## DATA SHEET

Model No: 1018DCDC1210

Ordering Code: 1018DCDC1210

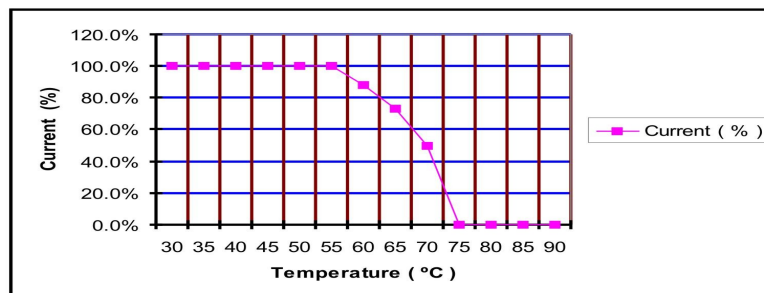
Isolated DC-DC Converter

Input 10 – 18 VDC: Output 12 VDC @ 10 A.

### Features:

- Latest state of -the -art current mode PWM Controller and MOSFET based design.
- Maximum output power of 120W.
- High efficiency, High reliability, Low cost.
- DC input voltage range 10V - 18V 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 1018DCDC1210.



## Specifications:

### \* Input Characteristics

Input Voltage	10V - 18V DC.
Input Connectors	Two 2-pin screw type connectors.
Indication	Input Ok - Yellow colour LED.
Input Protections	a) Fuse protection. b) Reverse polarity protection.

### \* Output Characteristics

Output Voltage	12 VDC.
Output Current	10 A.
Max. Output Power	120 W.
Output Connectors	Two 2-pin screw type connectors.
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	195 X 130 X 100.
Mounting	Panel Mounting.

Note:

- 1) All these parameters are specified at 12V DC input.
- 2) For continuous improvement, specifications are subject to change without prior intimation.