

# PRODUCT Information

## MODEL 5186

### SWITCH MODE POWER SUPPLY

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#### Technical specifications - 12V version

|                                   |                                                                 |
|-----------------------------------|-----------------------------------------------------------------|
| <b>Input voltage:</b>             | 100 - 240 VAC                                                   |
| <b>Switch frequency:</b>          | 47-63 kHz                                                       |
| <b>Input current:</b>             | 3.0A for 115 VA                                                 |
| <b>Safety ground leakage:</b>     | 0,75mA @240VAC/50Hz                                             |
| <b>Output voltage:</b>            | 12 VDC                                                          |
| <b>Output current:</b>            | 0 to 10,8 Amps                                                  |
| <b>Output power range:</b>        | 0 to 129.6 Watts                                                |
| <b>Ripple &amp; Noise:</b>        | 120mVp-p max (1% peak to peak maximum)                          |
| <b>Overvoltage protection:</b>    | 13,44 to 15,84 VDC                                              |
| <b>Overcurrent protection:</b>    | Output protected to short circuit conditions                    |
| <b>No load regulation:</b>        | 11,4 to 12,6 VDC (5% max)                                       |
| <b>Load regulation:</b>           | 11,4 to 12,6 VDC (5% max)                                       |
| <b>Temperature range</b>          |                                                                 |
| * Operating:                      | -0°C to +70°C.                                                  |
| * Storage:                        | -40°C to +85°C.                                                 |
| <b>Relative Humidity:</b>         | 5% to 95% non-condensing                                        |
| <b>Derating:</b>                  | From 100% at +50°C linearly to 50% at +70°C.                    |
| <b>Efficiency:</b>                | > 80% minimum at max. load.                                     |
| <b>Hold up time:</b>              | > 5 ms. minimum                                                 |
| <b>Line regulation:</b>           | +/- 1% max at full load                                         |
| <b>Inrush current:</b>            | 20 amps @115VAC or 40 apms @230VAC at cold start                |
| <b>Withstand voltage:</b>         | 4242 VDC from input to output,<br>2121 VDC from input to ground |
| <b>Insulation resistance:</b>     | 100 MO minimum from output to ground                            |
| <b>Mean time between failure:</b> | 100,000 hours minimum at full load at 25oC                      |
| <b>Temperature protection:</b>    | 125 - 135 oC                                                    |

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