

# 375V 2nd Generation

50 - 600 WATTS PCB MOUNTING COMPONENTS

## Features

- **Input Voltage: 250-425Vdc**
- **Output Voltage: 2-48Vdc**
- **Output Power (per module):**Maxi: 600W Mini: 300W Micro: 150W
- **Efficiency: Up to 90%**
- **Agency Approvals: UL, CSA, TUV, VDE, BABT, CE Marked, C-Tick**



## Specifications

### GENERAL

|                           | Units             | Notes                               |
|---------------------------|-------------------|-------------------------------------|
| Set point accuracy        | ±1% Vout nom.     | Nominal input;full load; 25°C       |
| Line regulation           | ±0.02% Vout nom.  | Low line to high line; full load    |
| Load regulation           | ±0.02% Vout nom.  | No load to full load; nominal input |
| Temperature regulation    | ±0.002% Vout/°C   | -20°C to 100°C                      |
| Ripple and noise, p-p     | 100mV             | Full load, 20MHz bandwidth          |
| Remote sense compensation | 0.5 Volts         |                                     |
| Overvoltage set point     | 115% Vout nom.    |                                     |
| Current limit             | 115% out max.     | Vout 95% of nominal                 |
| Efficiency: 5Vout         | 83%               | Nominal input; 80% load; 25°C       |
| 24Vout                    | 88%               | Nominal input; 80% load; 25°C       |
| Programming range         | 10-110% Vout nom. |                                     |
| Short circuit current     | 115% out max.     | Output Voltage <250mV               |
| Isolation voltage         | 3000Vrms          | Input to Output                     |

(typical unless otherwise noted)

### STANDARDS AND APPROVALS

C-Tick AS/NZS CISPR11 Group 1 Class A

## Selection Table

| OUTPUT VOLTAGE (VDC) | OUTPUT POWER (W) |      |       |
|----------------------|------------------|------|-------|
|                      | MAXI             | MINI | MICRO |
| 2V                   | 160              | 100  | 50    |
| 3.3V                 | 264              | 150  | 75    |
| 5V                   | 400              | 200  | 100   |
| 12V                  | 600              | 300  | 150   |
| 15V                  | 600              | 300  | 150   |
| 24V                  | 600              | 300  | 150   |
| 28V                  | 600              | 300  | 150   |
| 48V                  | 600              | 300  | 150   |

## Product Grade Specifications

|                      | E          | C          | T          | H                     | M                     |
|----------------------|------------|------------|------------|-----------------------|-----------------------|
| Operating Temp. (°C) | -10 to 100 | -20 to 100 | -40 to 100 | -40 to 100            | -55 to 100            |
| Storage Temp. (°C)   | -20 to 125 | -40 to 125 | -40 to 125 | -55 to 125            | -65 to 125            |
| Temp. Cycling (°C)   | none       | none       | none       | 24 hours (-55 to 125) | 24 hours (-65 to 125) |
| Burn-In              | none       | none       | none       | 12 hours              | 24 hours              |
| Low Temp. Test (°C)  | none       | none       | none       | -40°C                 | -55°C                 |
| High Temp. Test (°C) | none       | none       | none       | 100°C                 | 100°C                 |
| Final Test Data      | none       | none       | none       |                       |                       |

Mechanical Drawings refer to page 237-238

Other O/P voltages consult sales

## Part Numbering

|                      |            |                                   |                       |   |                     |          |   |  |
|----------------------|------------|-----------------------------------|-----------------------|---|---------------------|----------|---|--|
| <b>V</b>             | <b>375</b> | <b>A</b>                          | <b>48</b>             | <b>C</b>  | <b>500</b>          | <b>B</b> | <b>L</b>  |  |
| <b>Input Voltage</b> |            | <b>Package</b>                    | <b>Output Voltage</b> | <b>Product Grade</b>  | <b>Output Power</b> |          | <b>Pin Style</b>  | <b>Baseplate</b>                                 |
|                      |            | A = Maxi<br>B = Mini<br>C = Micro |                       | E = -10 to +100°C<br>C = -20 to +100°C<br>T = -40 to +100°C<br>H = -40 to +100°C<br>M = -55 to +100°C |                     |          | Blank = Short solder<br>L = Long solder<br>S = Short ModuMate<br>N = Long ModuMate<br>F = Short RoHS<br>G = Long RoHS | Blank = Slotted<br>2 = Threaded<br>3 = Thru hole |