

# 300V 2nd Gen

50 - 500W PCB MOUNTING COMPONENTS

## Features

- **Input Voltage: 180-375Vdc**
- **Output Voltage: 2-48Vdc**
- **Output Power (per module):**Maxi: 500W Mini: 250W Micro: 150W
- **Efficiency: Up to 91%**
- **Agency Approvals: UL, CSA, TUV, VDE, BABT,CE Marked, C-Tick**



## Specifications

### GENERAL

|                                  | Units                          | Notes               |
|----------------------------------|--------------------------------|---------------------|
| Set point accuracy               | ±1% Vout nom.                  | Nominal input;      |
| Line regulation                  | ±0.02% Vout nom.               | Low line to high    |
| Load regulation                  | ±0.02% Vout nom.               | No load to full     |
| Temperature regulation           | ±0.002% Vout/oC                | -20°C to 100°C      |
| Ripple and noise, p-p            | 100mV                          | Full load, 20MHz    |
| Remote sense compensation        | 0.5Volts                       |                     |
| Overvoltage set point            | 115%Vout nom.                  |                     |
| Current limit                    | 115% Iout max.                 | Vout 95% of nominal |
| Efficiency: 5Vout                | 82%                            | Nominal input;      |
| Programming range                | 10-110% Vout nom.              |                     |
| Short circuit current            | 115%Iout max.                  | Output Voltage      |
| Isolation voltage                | 3000Vrms                       | Input to Output     |
| (typical unless otherwise noted) |                                |                     |
| <b>STANDARDS AND APPROVALS</b>   |                                |                     |
| 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  | 75/50  |
| 5V                   | 400              | 200  | 100/50 |
| 12V                  | 500              | 250  | 150/75 |
| 15V                  | 500              | 250  | 150/75 |
| 24V                  | 500              | 250  | 150/75 |
| 28V                  | 500              | 250  | 150/75 |
| 48V                  | 500              | 250  | 150/75 |

## 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 voltage consult sales

## Part Numbering

|                      |            |                |                       |                      |                     |          |                      |                  |
|----------------------|------------|----------------|-----------------------|----------------------|---------------------|----------|----------------------|------------------|
| <b>V</b>             | <b>300</b> | <b>A</b>       | <b>48</b>             | <b>C</b>             | <b>500</b>          | <b>B</b> | <b>L</b>             | <b>Blank</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       |                       | E = -10 to +100°C    |                     |          | Blank = Short solder | Blank = Slotted  |
|                      |            | B = Mini       |                       | C = -20 to +100°C    |                     |          | L = Long solder      | 2 = Threaded     |
|                      |            | C = Micro      |                       | T = -40 to +100°C    |                     |          | S = Short ModuMate   | 3 = Thru hole    |
|                      |            |                |                       | H = -40 to +100°C    |                     |          | N = Long ModuMate    |                  |
|                      |            |                |                       | M = -55 to +100°C    |                     |          | F = Short RoHS       |                  |
|                      |            |                |                       |                      |                     |          | G = Long RoHS        |                  |