

# ARTESYN AVQ400 SERIES

396 Watts



## SPECIAL FEATURES

- 2:1 wide input range
- Optimised for high density, small space applications
- Low ripple and noise
- Fixed switching frequency
- High efficiency
- High capacitive load capability
- Basic insulation system
- Openframe structure with baseplate option
- Output over current protection

# SAFETY

- TUV/CE 62368-1
- UL/cUL 60950-1



#### DATA SHEET

#### Total Power:

396 Watts

#### Input Voltage:

36 - 75 V

#### # of Outputs:

Single



# **AVQ400 SERIES**

## **ELECTRICAL SPECIFICATIONS**

| Input                      |  |  |  |
|----------------------------|--|--|--|
| Input range                | 36 - 75 VDC                                |  |  |
| Efficiency                 | 95% @ 12 Vo                                |  |  |
| Output                     |  |  |  |
| Voltage tolerance          | +/-1.6%                                    |  |  |
| Line regulation            | 24 mV                                      |  |  |
| Load regulation            | 60 mV                                      |  |  |
| Noise/ripple               | 3.3 Vo: 150 mV                             |  |  |
| Overvoltage protection     | Ніссир                                     |  |  |
| Overtemperature protection | Auto-restart                               |  |  |
| Switching frequency        | 140 KHz                                    |  |  |
| Temperature co-efficient   | ±0.02/°C                                   |  |  |
| Isolation                  |  |  |  |
| I/O isolation              | 1500 VDC (2121 VDC for AVQ400-48S12B-6LN ) |  |  |

# ENVIRONMENTAL SPECIFICATIONS

| Operating ambient temperature range | -40° C to +85° C           |
|-------------------------------------|----------------------------|
| Storage temperature                 | -55 °C to +125 °C          |
| Humidity                            | 5% to 95% (non-condensing) |
| MTBF                                | 1.5 Million hours          |
| RoHS Compliant                      |                            |



## ORDERING INFORMATION

| Model number      | Input voltage | Output voltage | Power |
|-------------------|---------------|----------------|-------|
| AVQ400-48S12B-4L  | 36 - 75 Vin   | 12 V @ 33 A    | 396 W |
| AVQ400-48S12B-6L  | 36 - 75 Vin   | 12 V @ 33 A    | 396 W |
| AVQ400-48S12PB-4L | 36 - 75 Vin   | 12 V @ 33 A    | 396 W |
| AVQ400-48S12PB-6L | 36 - 75 Vin   | 12 V @ 33 A    | 396 W |
| AVQ400-48S12B-6LN | 36 - 75 Vin   | 12 V @ 33 A    | 396 W |

- Standard version is negative enable

- "-6" = 3.8 mm pin length

- "-4" = 4.8 mm pin length

- "-L" = RoHS 6 compliance

- "-P" = Positive enable

- "B" = Baseplate

#### **MECHANICAL DRAWINGS**





# **AVQ400 SERIES**

## **PIN ASSIGNMENTS**

| Pin # | Function |
|-------|----------|
| 1     | +V in    |
| 2     | Enable   |
| 3     | -V in    |
| 4     | -V out   |
| 5     | +V out   |

Notes:

All specifications are subject to change without notice. Mechanical drawings are for reference only.
Warranty: 2 years
Label and logo appearance may vary from what is shown on mechanical drawings.







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Our products enable customer innovation in complex applications for a wide range of industries including semiconductor equipment, industrial, manufacturing, telecommunications, data center computing, and medical. With deep applications know-how and responsive service and support across the globe, we build collaborative partnerships to meet rapid technological developments, propel growth for our customers, and innovate the future of power.

#### PRECISION | POWER | PERFORMANCE

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