| General Specifications | | | | | |
|-------------------------|------------------|--|--|--|--|
| Efficiency | | 91% | | | |
| Switching frequency | Fixed | 300 kHz typ. | | | |
| Approvals and standards | (See Note 7) | TÜV Product Services EN60950, UL/cUL60950 | | | |
| Material flammability | | UL94V-0 | | | |
| Weight | | 28.3 g (1 oz) | | | |
| MTBF | Telcordia SR-332 | 4,456,655 hours | | | |

11 11 1

| Environmental Specifications | | | | | |
|--------------------------------|---|----------------------------|--|--|--|
| Thermal performance | Operating ambient temperature -0 °C to +80 °C | | | | |
| (See Note 8) | Non-operating temperature -40 °C to +125 °C | | | | |
| Protection | | | | | |
| Short-circuit | Foldback, non-latching | | | | |
| Over-temperature | Hiccup, non-latching | | | | |
| Recommended System Capacitance | | | | | |
| Input capacitance | (See Note 9) | 270 µF / 20 mW ESR max. | | | |
| Output capacitance | (See Note 9) 680 µF / 10 m\ ESR max. | | | | |

| Ordering Information | | | | | | | | |
|----------------------|--------------|-----------------|-----------|----------------|----------------|------------|------------|-------|
| Model | Output Power | Input | Output | Output Current | Output Current | Efficiency | Regulation | |
| Number (10, 12) | (Max.) | Voltage | Voltage | (Min.) | (Max.) | (Typical) | Line | Load |
| SIL30C-12SADJ-VJ | 150 W | 10.2 - 13.8 Vdc | 0.9 - 5 V | 0 A | 30 A | 91% | ±0.2% | ±1.5% |

Part Number System with Options

| Product Family | Rated Output Current | Performance | Input Voltage | Number of Outputs | Output Voltage | Mounting Option | Packaging Options |
|----------------------|-------------------------|-----------------------|-------------------------|-------------------|---------------------------|--------------------------------|-------------------------------------|
| SIL | 30 | C | 12 | S | ADJ | . V | J |
| SIL = Single In Line | 30 = 30 Amp | C = Cost Optimized | 12 = 10.2 - 13.8 Vdc | S = Single Output | ADJ = Adjustable Ouput | V = Vertical H = Horizontal | J = Pb free (RoHS 6/6 compliant) |

Output Voltage Adjustment

The ultra-wide output voltage trim range offers major advantages to users who select the SIL30C-12SADJ. It is no longer necessary to purchase a variety of modules in order to cover different output voltages. The output voltage can be trimmed in a range of 0.9 Vdc to 5.0 Vdc. When the SIL30C-12SADJ converter leaves the factory the output has been adjusted to the default voltage of 0.9 V.

Notes:

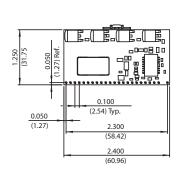
- 1. Uses external resistor from TRIM to output ground. See Application Note 132 for details.
- 2. Measured with external filter. See Application Note 132 for details.
- 3. di/dt = 10 A/ μ s, Vin = Nom, Tc = 25 °C, load change = 0.5 lo max to 0.75 lo max and 0.75 lo max to 0.5 lo max.
- 4. External input fusing is recommended.
- Power up is the time from application of dc input to POWER GOOD high. Remote ON/OFF asserted high to POWER GOOD high.
- $6. \quad \text{Signal line assumed} < \!\! 3 \text{ m}.$
- 7. This product is only for inclusion by professional installers within other equipment and must not be operated as a stand alone product.
- 8. See Application Note 132 for operation above 50 $^{\circ}\text{C}.$
- 9. See Application Note 132 for ripple current requirements.
- 10. The standard unit with the suffix '-V' is for vertical mounting. To order a unit with horizontal mounting, please add the suffix '-H' to the model number, e.g. SIL30C-12SADJ-HJ.
- 11. This model has a wide trim output of between 0.9 Vdc to 5 Vdc. An external resistor adjusts the output voltage.
- 12. NOTICE: Some models do not support all options. Please contact your local Artesyn representative or use the on-line model number search tool at http://www.artesyn.com to find a suitable alternative.

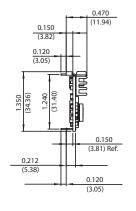
Mechanical Drawings

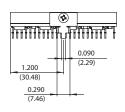
| Pin . | Assignments | | | |
|-------|--------------------|--|--|--|
| Pin | Function | | | |
| 1 | Trim | | | |
| 2 | No Pin | | | |
| 3 | Ground | | | |
| 4 | Power Good | | | |
| 5 | Not Connected | | | |
| 6 | Current Share | | | |
| 7 | Ground | | | |
| 8 | Ground | | | |
| 9 | Remote ON/OFF | | | |
| 10 | Remote Sense (GND) | | | |
| 11 | Remote Sense (O/P) | | | |
| 12 | Vin | | | |
| 13 | Vin | | | |
| 14 | Vin | | | |
| 15 | Vout | | | |
| 16 | Vout | | | |
| 17 | Ground | | | |
| 18 | Vout | | | |
| 19 | Ground | | | |
| 20 | Vout | | | |
| 21 | Ground | | | |
| 22 | Vout | | | |
| 23 | Ground | | | |
| 24 | Vout | | | |

Horizontal Mount

In the same

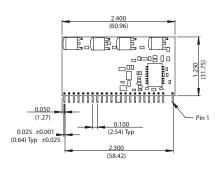


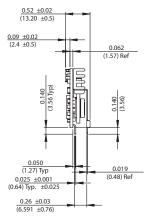


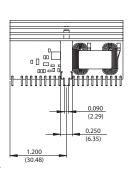


All dimensions in inches (mm) General tolerance ±0.015in (±0.30mm) except where specified otherwise

Vertical Mount







All dimensions in inches (mm)
General tolerance ±0.015in (±0.30mm)

WORLDWIDE OFFICES

Americas

2900 South Diablo Way Suite B100 Tempe, AZ 85282, USA +1 888 412 7832

Europe (UK)

Ground Floor Offices, Barberry House 4 Harbour Buildings, Waterfront West Brierley Hill, West Midlands DY5 1LN, UK +44 (0) 1384 842 211

Asia (HK)

14/F, Lu Plaza 2 Wing Yip Street Kwun Tong, Kowloon Hong Kong +852 2176 3333

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For support: productsupport.ep@artesyn.com

SIL30C Series 31Dec2019