



- Wide 2 : 1 and 4 : 1 Input Ranges
- High Efficiency
- Regulated Outputs
- 1600V Isolation
- Full EMI Shielding
- Standard Pinouts

Unit measures 1"W x 2"L x 0.425"H

Model Number	Output Voltage	Output Amps	Input Range
ST10-123.3S	3.3 VDC	2	9-18VDC
ST10-243.3S		2	18-36VDC
ST10-24F3.3S		2	10-40VDC
ST10-483.3S		2	36-75VDC
ST10-48F3.3S		2	18-75VDC
ST10-125S	5 VDC	2	9-18VDC
ST10-245S		2	18-36VDC
ST10-24F5S		2	10-40VDC
ST10-485S		2	36-75VDC
ST10-48F5S		2	18-75VDC
ST10-1212S	12 VDC	0.83	9-18VDC
ST10-2412S		0.83	18-36VDC
ST10-24F12S		0.83	10-40VDC
ST10-4812S		0.83	36-75VDC
ST10-48F12S		0.83	18-75VDC
ST10-1215S	15 VDC	0.67	9-18VDC
ST10-2415S		0.67	18-36VDC
ST10-24F15S		0.67	10-40VDC
ST10-4815S		0.67	36-75VDC
ST10-48F15S		0.67	18-75VDC
ST10-1224S	24 VDC	0.42	9-18VDC
ST10-2424S		0.42	18-36VDC
ST10-4824S		0.42	36-75VDC



Isolated and Regulated 10 Watt Modular DC/DC Converters

ST10 series

INPUT SPECIFICATIONS

Table with 2 columns: Input Voltage, Nominal (12VDC, 24VDC, 48VDC), Input Voltage Ranges (9-18, 18-36, 36-75, 10-40 VDC), Input Surge Voltage (50V, 100V), Input Fusing (4A, 2A), Input Filter (PI Type).

OUTPUT SPECIFICATIONS

Table with 2 columns: Voltage and Current (See Selection Chart), Max. Output Power (7 Watts, 10 Watts), Voltage Accuracy (+/- 2%), Load Regulation (10% - FL), Minimum Load (3.3 & 5Vout), Line Regulation (HL-LL), Temperature Coefficient (+/- 0.02%/°C), Ripple (<0.2% Vout), Noise (<0.5% Vout), Overvoltage Protection (Zener Diode Clamp), Overcurrent Protection (120% of Rated), Short Circuit Protection (Current Limit), Efficiency (3.3 Vout = 78%, 5 Vout = 81%, 12 & 15 Vout = 82%, 24 Vout = 83%).

PHYSICAL SPECIFICATIONS

Table with 2 columns: Dimensions (2"x1"x0.425"), Case Material (Nickel Coated Copper), Construction (Fully Encapsulated), Weight (1.13 oz, (32g)).

GENERAL SPECIFICATIONS

Table with 2 columns: Input-Out Isolation (1600VDC), Input-Output Resistance (10-9th Ohms), In/Out Capacitance (1000 pF), Switching Frequency (300Khz).

ENVIRONMENTAL SPECIFICATIONS

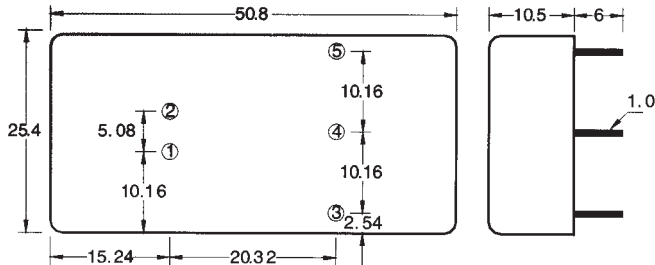
Table with 2 columns: Oper. Temperature (-25 to +70°C), Storage Temperature (-55 to +105°C), Maximum Case Temp (100°C max.), Humidity (95%RH), Cooling (Free Air Convection), MTBF (>800,000 Hrs @ 25°C), EMI (EN 55022 class A).

All specifications are typical at nominal input, full load, and 25DegC unless otherwise noted

\* These are stress ratings. Exposure of the devices to any of these conditions may adversely affect long term reliability. Proper operation under conditions other than the standard operating conditions is neither warranted nor implied.

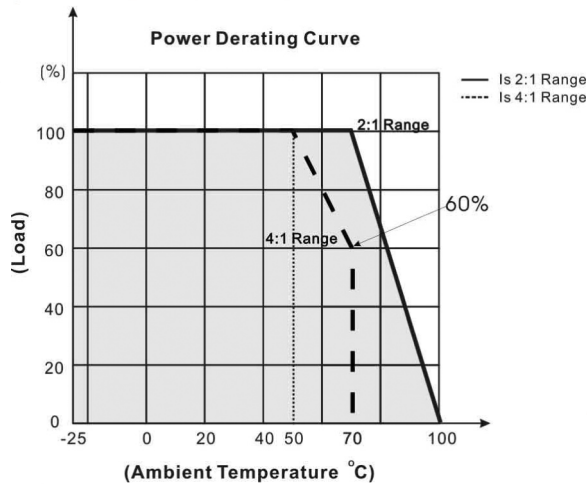
Astrodyne products are not authorized or warranted for use as critical components in life support systems, equipment used in hazardous environments, nuclear controls systems, or other mission-critical applications.

### MECHANICAL DIMENSIONS



Pin #	Function
1	+ Input
2	- Input
3	+ Output
4	N/A
5	- Output

### DERATING



### BLOCK DIAGRAM

#### Single Output

