

**KEY FEATURES**

- Power Modules for PCB Mounting
- Regulated Output
- Low Ripple and Noise
- Remote ON/OFF Control (Optional)
- 4:1 Input Range (Optional)
- 2 Year Product Warranty


**ELECTRICAL SPECIFICATIONS**

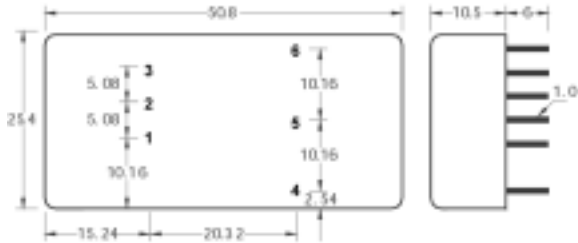
Model No.	ST10-12-3.3S	ST10-12-5S	ST10-12-12S	ST10-12-15S	ST10-12-24S
Max. output wattage (W)	7W	10W	10W	10W	10W
Input voltage (V.DC.)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)
Output voltage (V.DC.)	3.3V / 2000mA	5V / 2000mA	12V / 830mA	15V / 670mA	24V / 420mA

Model No.	ST10-24-3.3S	ST10-24-5S	ST10-24-12S	ST10-24-15S	ST10-24-24S
Max. output wattage (W)	7W	10W	10W	10W	10W
Input voltage (V.DC.)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)
Output voltage (V.DC.)	3.3V / 2000mA	5V / 2000mA	12V / 830mA	15V / 670mA	24V / 420mA

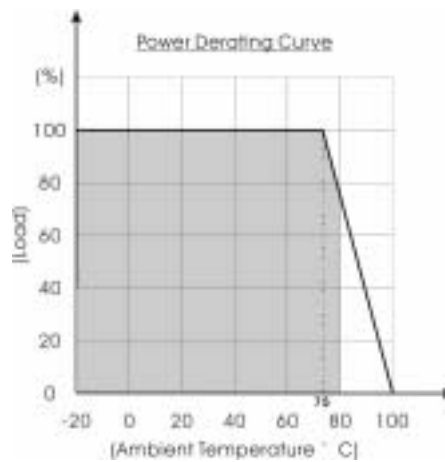
Model No.	ST10-48-3.3S	ST10-48-5S	ST10-48-12S	ST10-48-15S	ST10-48-24S
Max. output wattage (W)	7W	10W	10W	10W	10W
Input voltage (V.DC.)	48V (36-75V)	48V (36-75V)	48V (36-75V)	48V (36-75V)	48V (36-75V)
Output voltage (V.DC.)	3.3V / 2000mA	5V / 2000mA	12V / 830mA	15V / 670mA	24V / 420mA

Model No.	ST10-12-3.3S ST10-24-3.3S ST10-48-3.3S	ST10-12-5S ST10-24-5S ST10-48-5S	ST10-12-12S ST10-24-12S ST10-48-12S	ST10-12-15S ST10-24-15S ST10-48-15S	ST10-12-24S ST10-24-24S ST10-48-24S	
Max output wattage (W)	7W	10W	10W	10W	110W	
Input	Input filter $\pi$ type					
Output	Voltage (V.DC.)	3.3	5	12	15	24
	Voltage accuracy	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
	Current (mA) max	2000	2000	830	670	420
	Line regulation (HL-LL) (typ.)	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$	$\pm 0.5\%$
	Load regulation (10-100%) (typ.)	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$	$\pm 1\%$
	Ripple	$< 0.2\% V_{out} + 20mV \text{ max (Vp-p)}$				
	Noise	$< 0.5\% V_{out} + 50mV \text{ max (Vp-p)}$				
	Efficiency	78%	81%	82%	82%	83%
Protection	Switching frequency	300KHz	300KHz	300KHz	300KHz	300KHz
	Over current protection	Works over 120% of rating and recovers automatically.				
	Over voltage protection	Zener diode clamp				
Isolation	Short circuit protection	Current limit, auto-recovery				
	Voltage	1600 VDC.				
	Resistance	$10^9$ ohms				
Environment	Capacitance	1000 pF				
	Operating temperature	$-25^{\circ}\text{C} \dots +71^{\circ}\text{C}$				
	Storage temperature	$-55^{\circ}\text{C} \dots +105^{\circ}\text{C}$				
	Case temperature	$+95^{\circ}\text{C}$ max.				
	Temperature coefficient	$\pm 0.02\%$ Per $^{\circ}\text{C}$				
Physical	Humidity	95% RH				
	MTBF	$> 800,000 \text{ h @ } 25^{\circ}\text{C (MIL-HDBK-217F)}$				
	Dimension (L x W x H)	2.0 x 1.0 x 0.413 Inches (50.8 x 25.4 x 10.5 mm)				
	Case Material	Nickel-Coated Copper with Non-conductive Base				
Safety	Weight	30 g				
	Cooling method	Free-air convection				
	Agency approvals	CE (Pending)				
EMC	EMI (Conducted & Radiated Emission) EN 55022 class A					

 All specifications valid at nominal input voltage, full load and  $+25^{\circ}\text{C}$  after warm-up time unless otherwise stated.

**MECHANICAL DIMENSION (Top View)**


PIN#	Single
1	+DC IN
2	-DC IN
3	REMOTE ON/OFF
4	+DC OUT
5	NO PIN
6	-DC OUT

**DERATING**

**BLOCK DIAGRAM**
**Single Output**
