

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.	ST15-12-3.3S	ST15-12-5S	ST15-12-12S	ST15-12-15S	ST15-12-24S
Max. output wattage (W)	13.2W	15W	15W	15W	15W
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 / 3000mA	5V / 3000mA	12V / 1250mA	15V / 1000mA	24V / 625mA

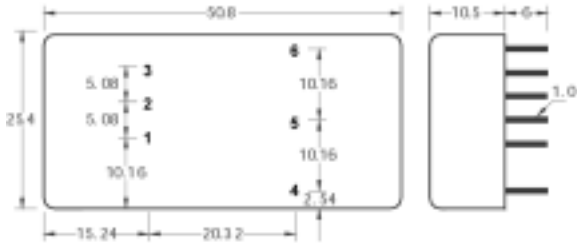
Model No.	ST15-24-3.3S	ST15-24-5S	ST15-24-12S	ST15-24-15S	ST15-24-24S
Max. output wattage (W)	13.2W	15W	15W	15W	15W
Input voltage (V.DC.)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)
Output voltage (V.DC.)	3.3V / 3000mA	5V / 3000mA	12V / 1250mA	15V / 1000mA	24V / 625mA

Model No.	ST15-48-3.3S	ST15-48-5S	ST15-48-12S	ST15-48-15S	ST15-48-24S
Max. output wattage (W)	13.2W	15W	15W	15W	15W
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 / 3000mA	5V / 3000mA	12V / 1250mA	15V / 1000mA	24V / 625mA

Model No.		ST15-12-3.3S ST15-24-3.3S ST15-48-3.3S	ST15-12-5S ST15-24-5S ST15-48-5S	ST15-12-12S ST15-24-12S ST15-48-12S	ST15-12-15S ST15-24-15S ST15-48-15S	ST15-12-24S ST15-24-24S ST15-48-24S
Max output wattage (W)		13.2W	15W	15W	15W	15W
Input	Input filter	π type				
	Voltage (V.DC.)	3.3	5	12	15	24
Output	Voltage accuracy	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$	$\pm 2\%$
	Current (mA) max	3000	3000	1250	1000	625
	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	$< 0.2\% V_{out} + 20mV$ max (Vp-p)				
	Noise	$< 0.5\% V_{out} + 50mV$ max (Vp-p)				
	Efficiency	79%	82%	83%	83%	83%
	Switching frequency	400KHz	400KHz	400KHz	400KHz	400KHz
Protection	Over current protection	Works over 120% of rating and recovers automatically.				
	Over voltage protection	Zener diode clamp				
	Short circuit protection	Current limit, auto-recovery				
Isolation	Voltage	1600 VDC.				
	Resistance	10^9 ohms				
	Capacitance	1000 pF				
Environment	Operating temperature	$-25^{\circ}C \dots +71^{\circ}C$				
	Storage temperature	$-55^{\circ}C \dots +105^{\circ}C$				
	Case temperature	$+95^{\circ}C$ max.				
	Temperature coefficient	$\pm 0.02\%$ Per $^{\circ}C$				
	Humidity	95% RH				
	MTBF	$> 800,000$ h @ $25^{\circ}C$ (MIL-HDBK-217F)				
Physical	Dimension (L x W x H)	2.0 x 1.0 x 0.413 Inches (50.8 x 25.4x 10.5 mm)				
	Case Material	Nickel-Coated Copper with Non-conductive Base				
	Weight	30 g				
	Cooling method	Free-air convection				
Safety	Agency approvals	CE (Pending)				
EMC	EMI (Conducted & Radiated Emission)	EN 55022 class A				

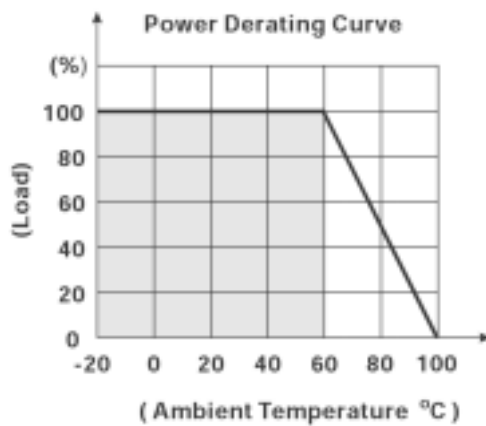
 All specifications valid at nominal input voltage, full load and $+25^{\circ}C$ after warm-up time unless otherwise stated.

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

