

KEY FEATURES

- Power Modules for PCB Mounting
- Fully Encapsulated Aluminum Case
- Regulated Output
- Low Ripple and Noise
- 2-Year Product Warranty


ELECTRICAL SPECIFICATIONS

Model No.	DE 5-5S	DE 5-12S	DE 5-15S	DE 5-24S	DE 5-5D	DE 5-12D	DE 5-15D
Max. output wattage (W)	2.5W	2.88W	3.0W	2.88W	2.5W	2.88W	3.0W
Input voltage (V.DC.)	5V (4.7-5.3)	5V (4.7-5.3)	5V (4.7-5.3)	5V (4.7-5.3)	5V (4.7-5.3)	5V (4.7-5.3)	5V (4.7-5.3)
Output voltage (V.DC.)	5V / 500mA	12V / 240mA	15V / 200mA	24V / 120mA	±5V / ±250mA	±12 / ±120mA	±15 / ±100mA

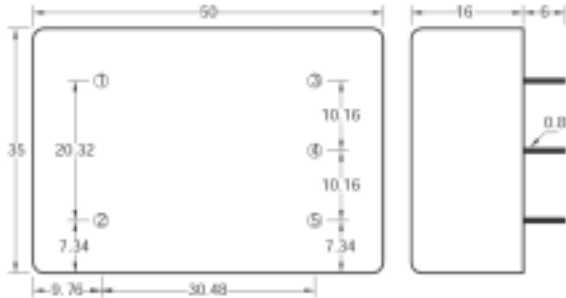
Model No.	DE 12-5S	DE 12-12S	DE 12-15S	DE 12-24S	DE 12-5D	DE 12-12D	DE 12-15D
Max. output wattage (W)	2.5W	2.88W	3.0W	2.88W	2.5W	2.88W	3.0W
Input voltage (V.DC.)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)
Output voltage (V.DC.)	5V / 500mA	12V / 240mA	15V / 200mA	24V / 120mA	±5V / ±250mA	±12 / ±120mA	±15 / ±100mA

Model No.	DE 24-5S	DE 24-12S	DE 24-15S	DE 24-24S	DE 24-5D	DE 24-12D	DE 24-15D
Max. output wattage (W)	2.5W	2.88W	3.0W	2.88W	2.5W	2.88W	3.0W
Input voltage (V.DC.)	24V (21.6-30)	24V (21.6-30)	24V (21.6-30)	24V (21.6-30)	24V (21.6-30)	24V (21.6-30)	24V (21.6-30)
Output voltage (V.DC.)	5V / 500mA	12V / 240mA	15V / 200mA	24V / 120mA	±5V / ±250mA	±12 / ±120mA	±15 / ±100mA

Model No.	DE 5-5S		DE 5-12S		DE 5-15S		DE 5-24S		DE 5-5D		DE 5-12D		DE 5-15D		
	DE12-5S	DE24-5S	DE12-12S	DE24-12S	DE12-15S	DE24-15S	DE12-24S	DE24-24S	DE12-5D	DE24-5D	DE12-12D	DE24-12D	DE12-15D	DE24-15D	
Max output wattage (W)	2.5W		2.88W		3.0W		2.88W		2.5W		2.88W		3.0W		
Input	Input filter π type														
Output	Voltage (V.DC.)	5		12		15		24		±5		±12		±15	
	Voltage accuracy	±3%		±3%		±3%		±3%		±3%		±3%		±3%	
	Current (mA) max	500		240		200		120		±250		±120		±100	
	Line regulation (HL-LL) (typ.)	±0.2%		±0.2%		±0.2%		±0.2%		±0.2%		±0.2%		±0.2%	
	Load regulation (10-100%) (typ.)	±1%		±1%		±1%		±1%		±1%		±1%		±1%	
	Ripple	<0.2% Vout +10mV max (Vp-p)													
	Noise	<0.5% Vout +40mV max (Vp-p)													
	Efficiency	50%		55%		57%		60%		50%		55%		57%	
Switching frequency	20KHz		20KHz		20KHz		20KHz		20KHz		20KHz		20KHz		
Protection	Over current protection	Works over 120% of rating and recovers automatically.													
	Short circuit protection	Protected (10 min)													
Isolation	Voltage	500 VDC.													
	Resistance	10 ⁹ ohms													
Environment	Operating temperature	-25°C...+71°C													
	Storage temperature	-55°C...+105°C													
	Case temperature	+95°C max.													
	Temperature coefficient	±0.02% Per°C													
	Humidity	95% RH													
MTBF	>800,000 h @ 25°C (MIL-HDBK-217F)														
Physical	Dimension (L x W x H)	1.96 x 1.38 x 0.63 Inches (50.0 x .35.0 x 16.0 mm)													
	Case Material	Aluminum,													
	Weight	60 g													
	Cooling method	Free-air convection													

All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

MECHANICAL DIMENSION (Top View)



PIN#	Single	Dual
1	+DC IN	+DC IN
2	-DC IN	-DC IN
3	+DC OUT	+DC OUT
4	NO PIN	COMMON
5	-DC OUT	-DC OUT

BLOCK DIAGRAM

DERATING

