

**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

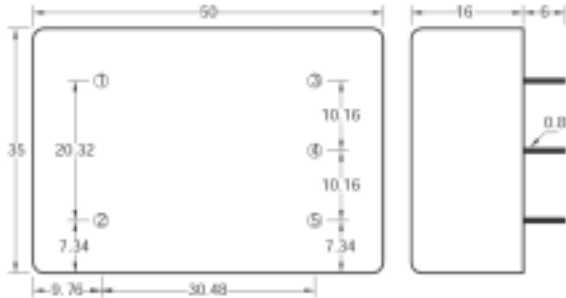
Model No.	DE 12-5S	DE 12-12S	DE 12-15S	DE 12-24S	DE 12-5D	DE 12-12D	DE 12-15D
Max. output wattage (W)	2.5W	2.88W	3.0W	2.88W	2.5W	2.88W	3.0W
Input voltage (V.DC.)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)	12V (10.8-15)
Output voltage (V.DC.)	5V / 500mA	12V / 240mA	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 <sup>9</sup> 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														
Physical	MTBF >800,000 h @ 25°C (MIL-HDBK-217F)														
	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**

