

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.	DG 12-5S	DG 12-12S	DG 12-15S	DG 12-24S	DG 12-5D	DG 12-12D	DG 12-15D
Max. output wattage (W)	10W	10W	10W	10W	10W	10W	10W
Input voltage (V.DC.)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)	12V (9-18V)
Output voltage (V.DC.)	5V / 2000mA	12V / 833mA	15V / 666mA	24V / 416mA	±5V / ±1000mA	±12V / ±415mA	±15 / ±333mA

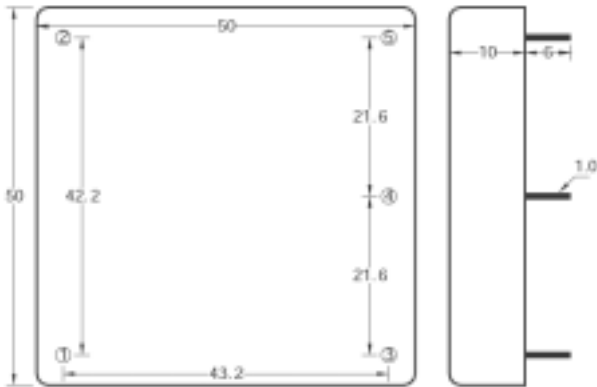
Model No.	DG 24-5S	DG 24-12S	DG 24-15S	DG 24-24S	DG 24-5D	DG 24-12D	DG 24-15D
Max. output wattage (W)	10W	10W	10W	10W	10W	10W	10W
Input voltage (V.DC.)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)	24V (18-36V)
Output voltage (V.DC.)	5V / 2000mA	12V / 833mA	15V / 666mA	24V / 416mA	±5V / ±1000mA	±12V / ±415mA	±15 / ±333mA

Model No.	DG 48-5S	DG 48-12S	DG 48-15S	DG 48-24S	DG 48-5D	DG 48-12D	DG 48-15D
Max. output wattage (W)	10W	10W	10W	10W	10W	10W	10W
Input voltage (V.DC.)	48V (36-72V)	48V (36-72V)	48V (36-72V)	48V (36-72V)	48V (36-72V)	48V (36-72V)	48V (36-72V)
Output voltage (V.DC.)	5V / 2000mA	12V / 833mA	15V / 666mA	24V / 416mA	±5V / ±1000mA	±12V / ±415mA	±15 / ±333mA

Model No.	DG 12-5S	DG 12-12S	DG 12-15S	DG 12-24S	DG 12-5D	DG 12-12D	DG 12-15D	
Max output wattage (W)	10W	10W	10W	10W	10W	10W	10W	
Input	Input filter							
	π type							
Output	Voltage (V.DC.)	5	12	15	24	±5	±12	±15
	Voltage accuracy	±2%	±2%	±2%	±2%	±2%	±2%	±2%
	Current (mA) max	2000	833	666	416	±1000	±415	±333
	Line regulation (HL-LL) (typ.)	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
	Load regulation (10-100%) (typ.)	±1%	±1%	±1%	±1%	±5%	±5%	±5%
	Ripple	<0.2% Vout +20mV max (Vp-p)						
	Noise	<0.5% Vout +50mV max (Vp-p)						
	Efficiency	78%	79%	80%	80%	78%	79%	80%
Protection	Switching frequency	120KHz	120KHz	120KHz	120KHz	120KHz	120KHz	120KHz
	Over current protection	Works over 120% of rating and recovers automatically.						
Isolation	Short circuit protection	Current limit, auto-recovery						
	Voltage	1600 VDC.						
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	>550,000 h @ 25°C (MIL-HDBK-217F)						
	Dimension (L x W x H)	2.0 x 2.0 x 0.4 Inches (50.0 x 50.0x 10.0 mm)						
	Case Material	Six-side shielded Aluminum with Non-Conductive base						
	Weight	50 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.

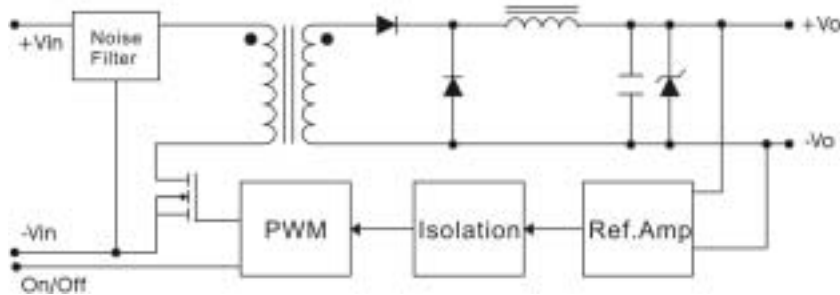
MECHANICAL DIMENSION (Top View)



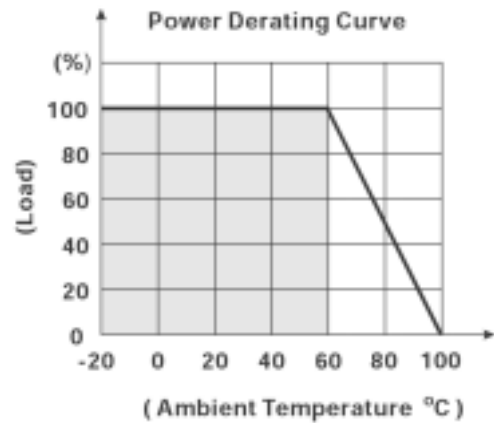
PIN#	Single	Dual
1	+DC IN	+DC IN
2	-DC IN	-DC IN
3	+DC OUT	+DC OUT
4	DO NOT CONNECT	COMMON
5	-DC OUT	-DC OUT

BLOCK DIAGRAM

Single Output



DERATING



Dual Output

