

G-Series

2W Isolated DC/DC-Converters

- 7 Pin SIP and 14 Pin DIP Package
- Low Ripple and Noise
- 1kVDC or 3kVDC Isolation
- Single and Dual Output

Selection Guide (See Model Code Information on Page 35)

Ordering Code	Nominal Input Voltage (VDC)	Input Current		Output Voltage (VDC)	Output Current (mA)	Efficiency at Full Load (%)
		No Load (mA)	Full Load (mA)			

1kVDC, Single Output

G-0505S-*	5	22	506	5	400	79
G-0512S-*	5	30	488	12	167	82
G-1205S-*	12	15	216	5	400	77
G-1212S-*	12	15	196	12	167	85
G-1215S-*	12	20	203	15	134	82
G-2405S-*	24	10	108	5	400	77
G-2412S-*	24	12	104	12	167	80

1kVDC, Dual Output

G-0505D-*	5	28	555	±5	±200	72
G-0512D-*	5	28	512	±12	±84	78
G-0515D-*	5	30	500	±15	±67	80
G-1205D-*	12	15	222	±5	±200	75
G-1212D-*	12	15	203	±12	±84	82
G-1215D-*	12	18	203	±15	±67	82
G-2405D-*	24	7	111	±5	±200	75
G-247.2D-*	24	8	107	±7.2	±139	78
G-2412D-*	24	8	102	±12	±84	82
G-2415D-*	24	9	100	±15	±67	83

3kVDC, Single Output

G-0505SH-*	5	22	506	5	400	79
G-0512SH-*	5	30	488	12	167	82
G-0515SH-*	5	30	494	15	134	81
G-1205SH-*	12	15	216	5	400	77
G-1212SH-*	12	15	196	12	167	85
G-2405SH-*	24	10	108	5	400	77
G-2412SH-*	24	9	98	12	167	85
G-2415SH-*	24	8	102	15	133	82

* Select on Inquiry Form SIP7 (Suffix 'S') or DIP14 (Suffix 'D') package size, see model code information on page 35.

G-Series

2W Isolated DC/DC-Converters

Selection Guide (See Model Code Information on Page 35)

Ordering Number	Nominal Input Voltage (VDC)	Input Current		Output Voltage (VDC)	Output Current (mA)	Efficiency at Full Load (%)
		No Load (mA)	Full Load (mA)			

3kVDC Dual Output

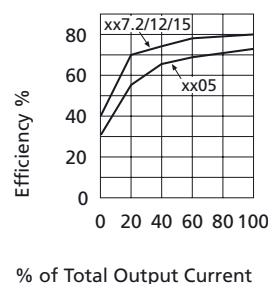
G-0505DH-*	5	28	555	±5	±200	72
G-0515DH-*	5	30	512	±15	±67	78
G-1205DH-*	12	15	222	±5	±200	75
G-1212DH-*	12	15	203	±12	±84	82
G-2405DH-*	24	7	111	±5	±200	75
G-247.2DH-*	24	8	107	±7.2	±139	78
G-2412DH-*	24	8	102	±12	±84	82
G-2415DH-*	24	9	100	±15	±67	83

* Select on Inquiry Form SIP7 (Suffix 'S') or DIP14 (Suffix 'D') package size, see model code information on page 35.

Specifications – Typical at +25°C, Unless Otherwise Noted

Voltage Range	±10%	Efficiency	70% to 85%
Filter	Capacitors	Switching Frequency	85 kHz, typ.
Rated Voltage	1000 VDC, min.	Operating Temperature	-40°C to +85°C
Leakage Current	1 mA		-40°C to +71°C (no derating)
Resistance	10 ⁹ Ω	Storage Temperature	-55°C to +125°C
Capacitance	60 pF, typ.	Derating	None Required
Voltage Accuracy	±5%, max.	Humidity	Up to 90%, Non-condensing
Voltage Balance (Dual Outputs)	±1%	Cooling	Free-air Convection
Ripple and Noise (at 20 MHz BW)	75 mVp-p, max.	Dimensions	SIP7 19.5 x 6 x 9.5 mm
Short Circuit Protection	Momentary		0.76 x 0.24 x 0.37"
Line Voltage Regulation	±1.2% / 1.0% of Vin		DIP14 20.32 x 10.16 x 6.85 mm
Load Voltage Regulation	±8%, load = 20-100%		0.80 x 0.40 x 0.27"
Temperature Coefficient	±0.02% / °C	Weight	2.5 g
		Case Material	Non-conductive Black Plastic

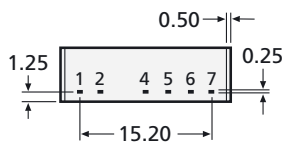
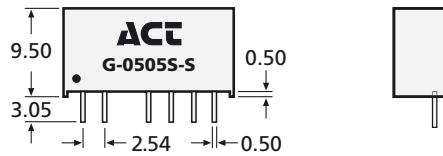
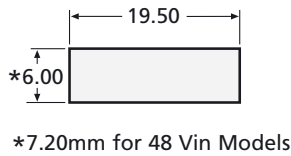
Typical Characteristics



G-Series

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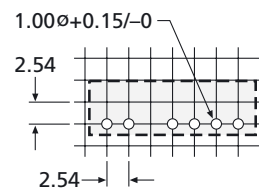
SIP7 Package Style and Pinning (mm)



Pin Connections

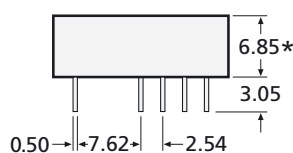
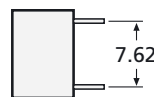
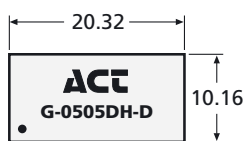
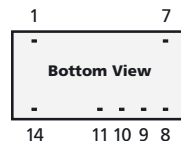
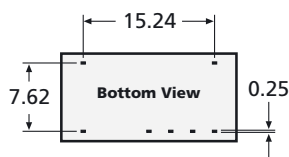
Pin #	1kVDC Standard		3kVDC	
	Single	Dual	Single	Dual
1	+Vin	+Vin	+Vin	+Vin
2	-Vin	-Vin	-Vin	-Vin
4	-Vout	-Vout	Omitted	Omitted
5	Omitted	Common	-Vout	-Vout
6	+Vout	+Vout	Omitted	Common
7	Omitted	Omitted	+Vout	+Vout

Recommended Footprint Details



Tolerance:
x.xx = ±0.25mm
(±0.01")

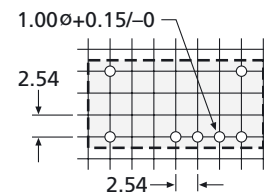
DIP14 Package Style and Pinning (mm)



*7.20mm for 48Vin Models

Tolerance:
x.xx = ±0.25mm
(±0.01")

Recommended Footprint Details



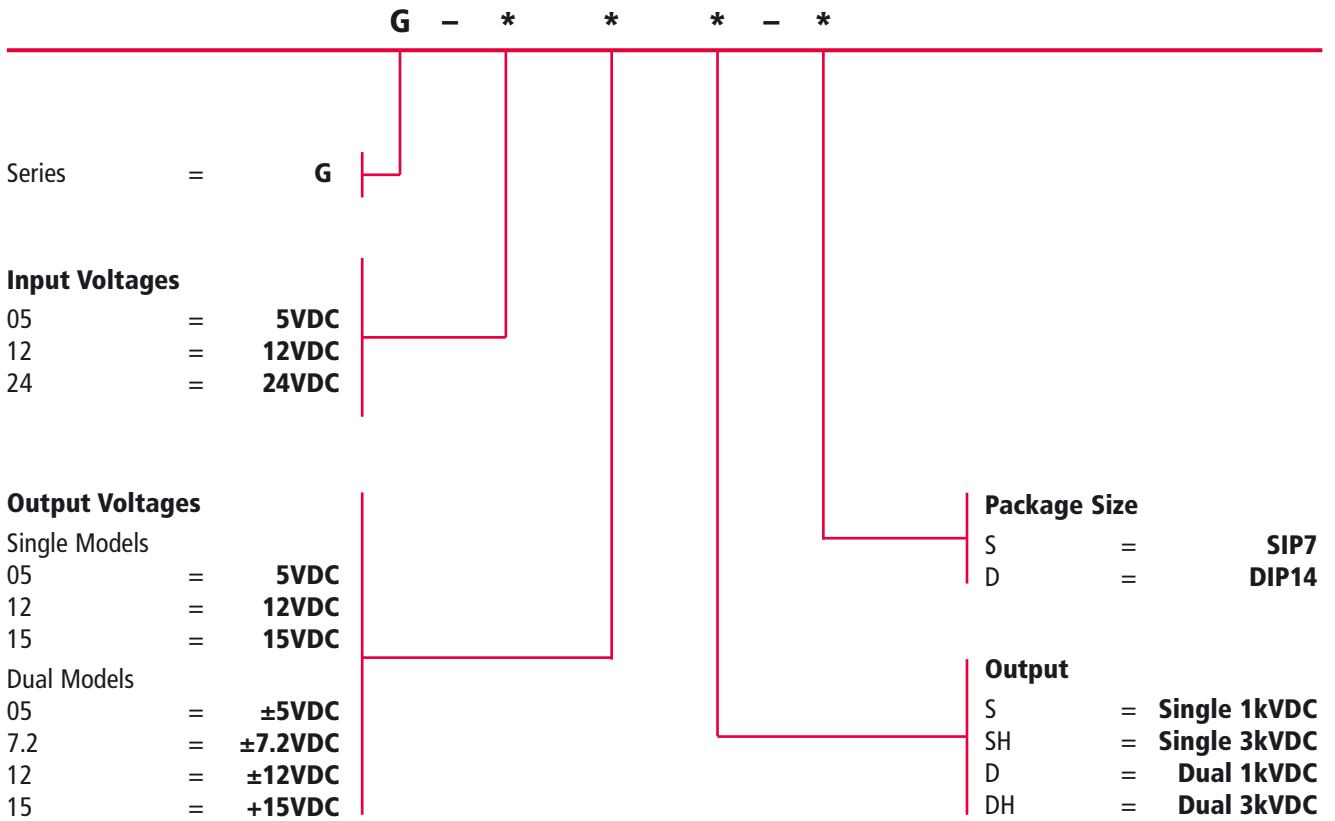
Pin Connections

Pin #	1kVDC Standard		3kVDC	
	Single	Dual	Single	Dual
1	-Vin	-Vin	-Vin	-Vin
7	NC	NC	NC	NC
8	Omitted	Common	+Vout	+Vout
9	+Vout	+Vout	Omitted	Common
10	Omitted	Omitted	-Vout	-Vout
11	-Vout	-Vout	Omitted	Omitted
14	+Vin	+Vin	+Vin	+Vin

G-Series

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Model Code Information



Ordering Examples: For availability see Selection Guides on page 32 and 33

- G-0512S-S = G-series, 5VDC input, 12VDC output, single output, 1kVDC isolation, SIP7 package size
- G-0515D-D = G-series, 5VDC input, 15VDC output, dual output, 3kVDC, DIP14 package size