



Input voltage ranges up to 75 V DC  
 3 outputs 5...15 V DC  
 1500 V DC I/O electric strength test voltage

CE

- Flex power
- Serial 8-bit status communication port
- Adapted to MIL and avionics applications

## Selection chart

Output 1		Output 2		Output 3		Input $U_i$ [V DC]	Rated power $P_{o\ tot}$ [W]	Efficiency $\eta_{typ}$ [%]	Type	Option
$U_{o\ nom}$ [V DC]	$I_{o\ nom}$ [A]	$U_{o\ nom}$ [V DC]	$I_{o\ nom}$ [A]	$U_{o\ nom}$ [V DC]	$I_{o\ nom}$ [A]					
5.05	5	12.6	2	-12.6	2	14...36	25	87	BG 3020-7	-9, D, B
5.05	5	12.6	2	-12.6	2	36...75	25	87	CG 3020-7	-9, D, B
5.05	5	15.4	1.6	-15.4	1.6	14...36	25	87	BG 3040-7	-9, D, B
5.05	5	15.4	1.6	-15.4	1.6	36...75	25	87	CG 3040-7	-9, D, B

**Input**

Input voltage	BG	14...36 V DC
	CG	36...75 V DC
Reverse polarity protection	shunt diode	

**Output**

Output voltage setting accuracy	$U_{i\text{ nom}}, I_{o\text{ nom}}$	$\pm 1\% U_{o\text{ nom}}$
Minimum load	recommended for tracking outputs	
		10% $I_{o\text{ nom}}$
Line/load regulation	$U_{i\text{ min}} \dots U_{i\text{ max}}, 50\% I_{o\text{ nom}}$	$\pm 1\% U_{o\text{ nom}}$
Line regulation	$U_{i\text{ min}} \dots U_{i\text{ max}}, 50\% I_{o\text{ nom}}$ (tracking outputs)	$\pm 5\% U_{o\text{ nom}}$
Load regulation	$U_{i\text{ nom}}, 50 \dots 100\% I_{o\text{ nom}}$ (tracking outputs)	$\pm 10\% U_{o\text{ nom}}$
Output voltage switching noise	$U_{i\text{ nom}}, 100\% I_{o\text{ nom}}$ , peak-peak, total	max. 1% $U_{o\text{ nom}}$
Efficiency	$U_{i\text{ nom}}, I_{o\text{ nom}}$	typ. 87%

**Control and protection**

Remote shut down	TTL-compatible input	disabled with $>2.4\text{ V}$
Connection in parallel	current sharing	
Adjustable output voltage	R-input	60...110% $U_{o\text{ nom}}$
Output voltage OK signal	open collector	
Overload protection	continuous, each output	
Output overvoltage protection	second loop, self recovery	
No-load protection	$U_{i\text{ min}} \dots U_{i\text{ max}}$	
Temperature monitoring	thermistor, self recovery	$>110^\circ\text{C}$

**Safety and EMC**

Electric strength test voltage	I/O	1500 V DC
Electromagnetic interference	conducted (with external filter)	
		class A
	radiated	
		class A

**Environmental**

Operating ambient temperature	$U_{i\text{ nom}}, I_{o\text{ nom}}$	$-25 \dots 71^\circ\text{C}$
Storage temperature	non operational	
		$-40 \dots 105^\circ\text{C}$
Relative humidity	non condensing	
		93%

**Options**

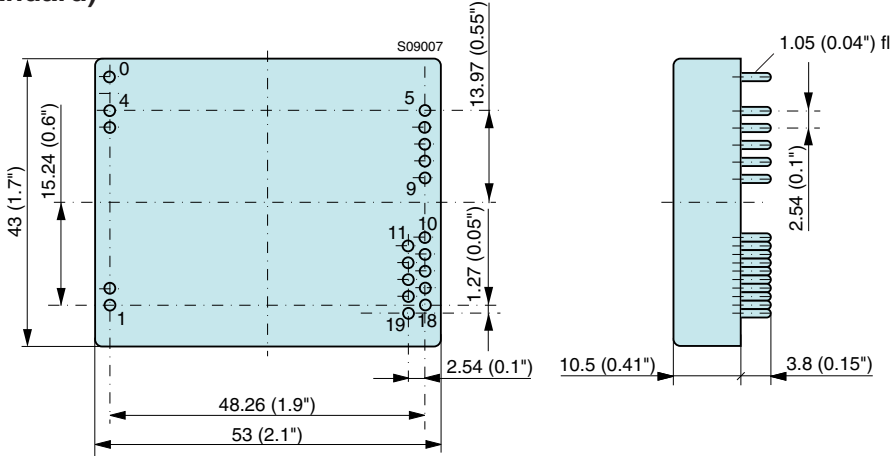
Extended temperature range	$-40 \dots 71^\circ\text{C}$ , ambient, operating	-9
Output voltage monitor	serial 8 bit status communication interface	D
Case with fixing holes		B

## Mechanical data

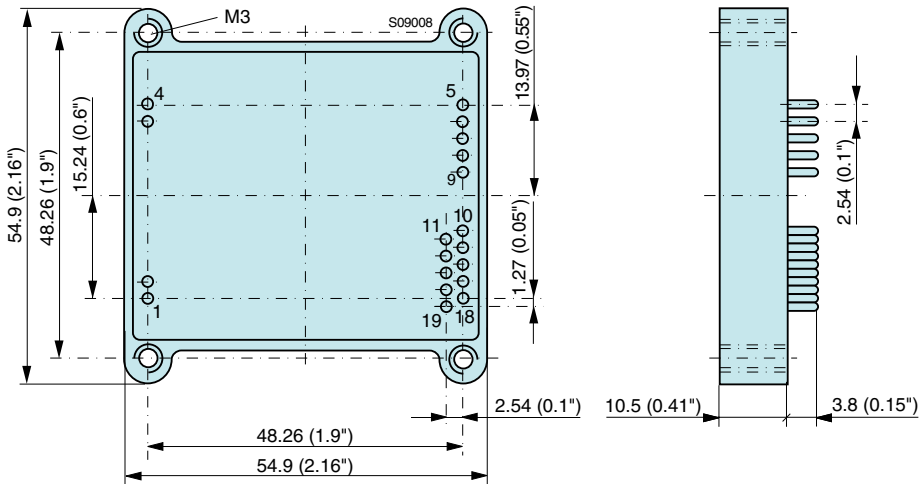
Tolerances  $\pm 0.3$  mm (0.012") unless otherwise indicated.



### G (standard)



### G (option B)



Pin allocation

Pin	Triple output units
1	i
2	TMON
3	Vi+
4	Vi-
5	Vo3-
6	Vo2+
7	Go
8	Go
9	Vo1+
10	/FAIL (Option D)
11	/SRQ (Option D)
12	/PDW (Option D)
13	/SDW (Option D)
14	/RST (Option D)
15	CT1 (Option D)
16	CT2 (Option D), U <sub>o</sub> OK
17	Go
18	R
19	T
0	Case (not with option B)

