



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



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

## Selection chart

| Output 1         |               | Output 2         |               | Output 3         |               | Input        | Rated power      | Efficiency       | 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] | $U_i$ [V DC] | $P_{o\ tot}$ [W] | $\eta_{typ}$ [%] |           |          |
| 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 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°C                       |

**Safety and EMC**

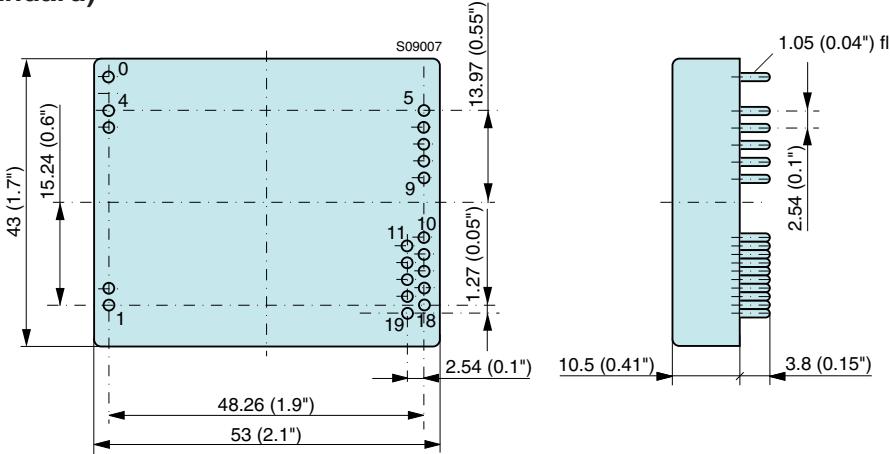
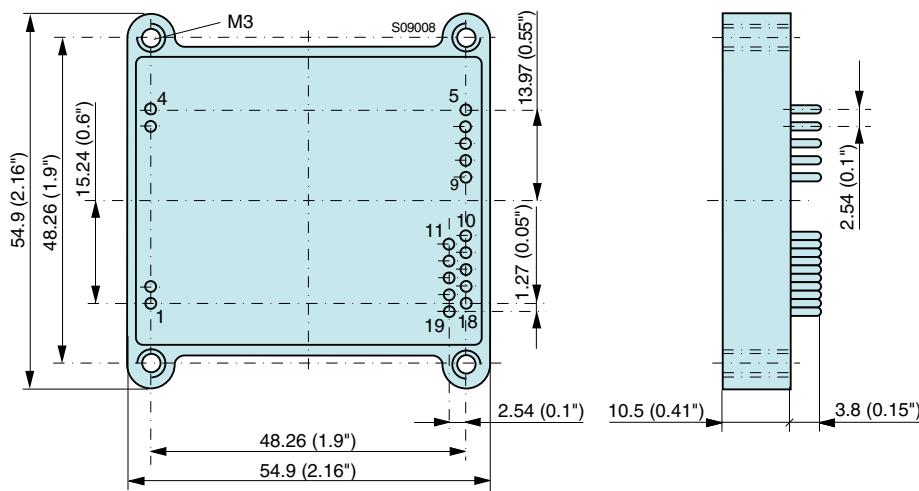
|                                |                                  |           |
|--------------------------------|----------------------------------|-----------|
| Electric strength test voltage | I/O                              | 1500 V DC |
| Electromagnetic interference   | conducted (with external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

**Environmental**

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

**Options**

|                            |   |    |
|----------------------------|---|----|
| Extended temperature range | -40...71°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), $U_o$ OK |
| 17  | Go                       |
| 18  | R                        |
| 19  | T                        |
| 0   | Case (not with option B) |

