



MIL-STD-1275E Compliance Unit for Ground Vehicles (28 VDC (4.2 kW))



GUB-KO42-028-01



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| Nominal Input Voltage | Input Voltage Range | Output Current(Max) | Output Power(Max) |
|-----------------------|---------------------|---------------------|-------------------|
| 28 VDC | 20-33 VDC | 150 A | 4,2 kW |

GDM0200AD115U082 28 VDC (4.2 kW) MIL-STD-1275E Compliance Unit for Ground Vehicles; It distributes the battery voltage it receives from the platform to which it is connected, from the transient regime pulses defined in the relevant standard, and transmits it to the in-vehicle units connected to its output.

The unit has the capacity to deliver 150 amperes of output current and 4.2 kW output power at nominal input voltage.

The unit's minimum efficiency is over 98% at peak output power. Cooling of the unit is provided by the cooler mounted outside the box and by conduction. There is no need for forced airflow.

Input Features

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|-------------------------|--|
| ● Nominal Input Voltage | +28 VDC (Battery) |
| ● Input Voltage Range | 20-33 VDC (Continuous Regime) 12-100 VDC (Transient Regime) |
| ● No Load Current | <0,1 A |

Output Features

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|--|---|
| ● Output Voltage (Nominal) | +28 VDC (Battery Voltage) |
| ● Output Power (Max) | 4.2 kW |
| ● Output Current (Max) | 150 A |
| ● Output Voltage Trimming Value (Nominal) | +36 VDC (±2%) |
| ● Dynamic Response Time (To input voltage pulse) | %10 (Accordint to Nominal Voltage) / 2 ms |

Mechanical Properties

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|----------|---|
| ● Width | 208,0 mm (mounting tabs included) |
| ● Height | 271,5 mm (connectors included) |
| ● Depth | 93,0 mm (without cooler) 123,0 mm (cooler included) |
| ● Weight | < 6,0 kg |

Elektromagnetic Compatibility

| | |
|----------------|-------|
| ● MIL-STD-461G | Ce102 |
|----------------|-------|

Environmental Characteristics

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|-------------------------|--|
| ● Operating Temperature | MIL-STD-810G -32°C ~ +55°C |
| ● Storage Temperature | MIL-STD-810G -40°C ~ +63°C |
| ● Vibration | MIL-STD-810G, Method 514.6, Procedure 1, Category 20A, Military Ground Vehicle |
| ● Mechanical Shock | MIL-STD-810G, Method 516.6, Procedure 1, (Functional, 20g 11ms) |
| ● Humidity | MIL-STD-810G, %95 humidity (non-condensing) |

Protections

| | |
|---|---|
| ● DC input high voltage protection | DC output is turned off. |
| ● DC input high voltage protection (Transient state, lasting 50 ms) | It continues to deliver by limiting the output voltage. |

Electrical Properties

| | |
|-----------------|--|
| ● MIL-STD-1275E | Spike Event (+250V, -250V for 70us, 125mJ) |
| ● MIL-STD-1275E | Surge Event (+100V for 50ms, 60J, source impedance: 0,5R) |