

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

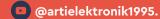


GUB-KO42-028-01











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

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 distrubutes 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**

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**

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**

Width	208,0 mm (mounting tabs included)	
<ul><li>Height</li></ul>	271,5 mm (connectors included)	
	93,0 mm (without cooler) 123,0 mm (cooler includedl)	
<ul><li>Weight</li></ul>	< 6,0 kg	_

#### **Elektromagnetic Compatibilty**

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### **Environmental Characteristics**

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.
<ul> <li>DC input high voltage protection (Transient state, lasting 50 ms)</li> </ul>	It continues to deliver by limiting the output voltage.

# **Electrical Properties**

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

