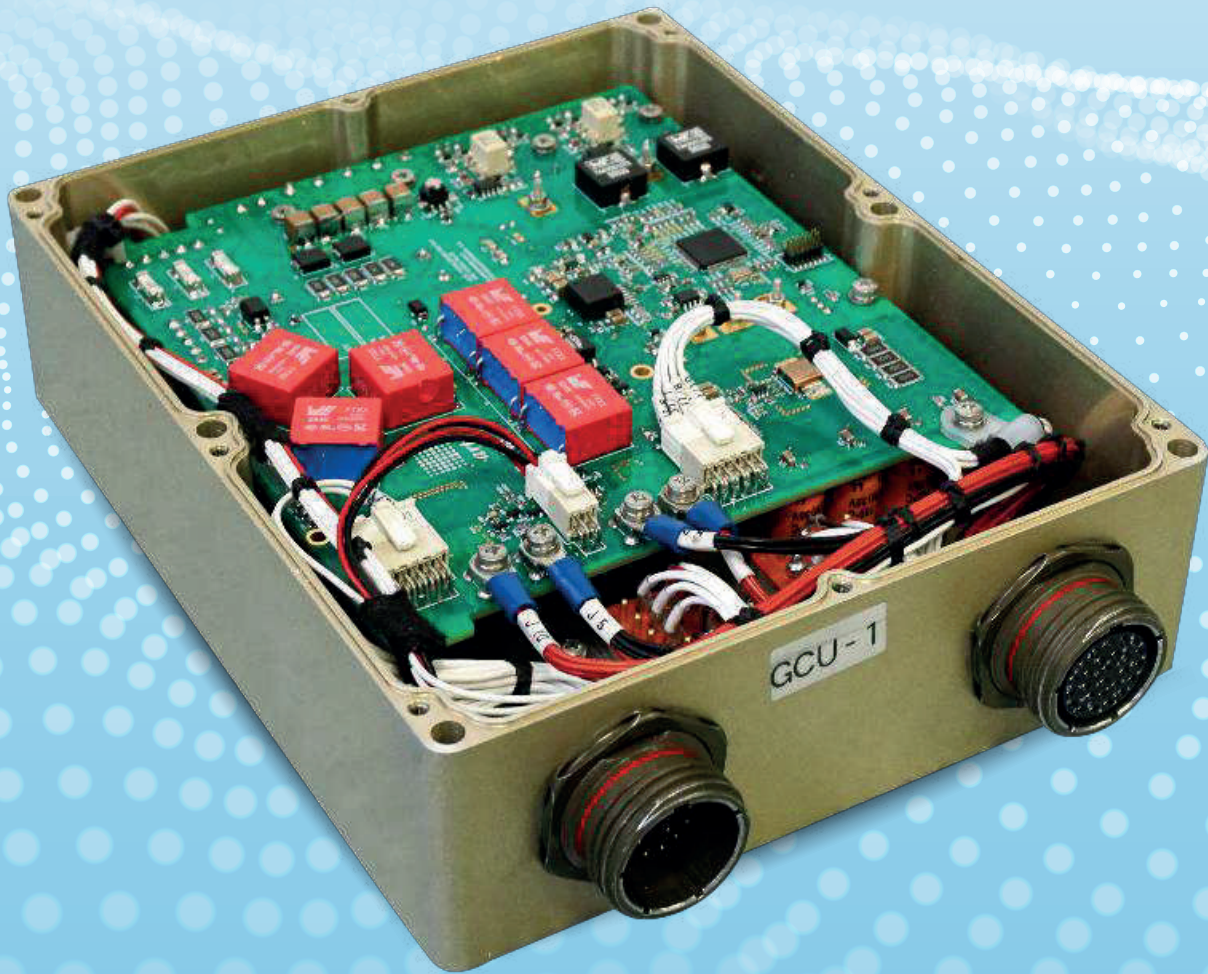




115 VAC (400 Hz) Input 28 VDC (1200 W) Output Power Converter Unit



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Input Voltage Range	AC Input Frequency Range	Number of Switched Outputs	Output Voltage	Rated Installed Power
75-160 VAC 180-400 VDA	393-407 Hz	4	28 VDC	1,2 kW

Power Converter Unit: It converts the 3-phase 115 VAC/400 Hz alternating current it receives from the platform to 28 V direct current and transmits it to the units connected to its output through two separate channels that can be switched independently by providing the necessary protections. The Power Converter Unit can also transfer the AC power supply to the output as two channels in accordance with the discrete input signals. The Power Converter Unit has an output power of 1.2 kilo-watts and has a minimum efficiency of 88%. There is no fan inside the converter, cooling is provided by transmission. Power Converter Unit can also operate with 270 VDC input voltage besides 3 phase AC voltage. In case of power cuts, the unit can deliver 5 amps of 28 VDC output voltage from the first DC output channel for 50 ms. The converter unit can be controlled and commanded externally via the RS-485 interface.

Input Features

● Input Voltage	115 VAC/400 Hz 3-phase 270 VDC
● Input Voltage Range	AC Input: 75-160 VAC phase-neutral DC Input: 180-370 VDC
● AC Input Voltage Frequency Range	393-407 Hz
● No-load Power Consumption	<0,5 A

Output Features

● Output Voltage	28,0±0,5 VDC
● Rated Output Power	1.200 W
● Output Voltage Fluctuation	±0.5 VDC
● Output Current	45 A

Mechanical Properties

● Width	170±1 mm
● Height	80±1 mm
● Depth	210±1 mm
● Weight	2.5±0,1 kg

Electromagnetic Compatibility

● MIL-STD-461G	CE101, CE102 CS101, CS114, CS115, CS116 RE102 RS103
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Environmental Characteristics

● Operating Temperature	MIL-STD-810G, -40°C ~ +70°C
● Storage Temperature	MIL-STD-810G, -40°C ~ +85°C
● Temperature Shock	MIL-STD-810G, Method 503.5, Procedure I, -40°C ~ +70°C
● Mechanical Shock	MIL-STD-810G, Method 516.6, Procedure I (Functional, 40 g 11 ms)
● Vibration	MIL-STD-810G, Method 514.8
● Altitude	MIL-STD-810G, 20.000 ft
● Humidity	MIL-STD-810G, Method 507.6
● Dust	MIL-STD-810G, Method 510.5 Procedure I/II

Protections

● AC input high voltage protection	Closes the DC outputs.
● AC input low voltage protection	Gives warning.
● DC input high voltage protection	Closes the DC outputs.
● DC input low voltage protection	Gives warning.
● Unit over-temperature protection	Closes the DC outputs.

Electrical Properties

● MIL-HDBK-704-1	TAC101, TAC102, TAC103, TAC104, TAC105, TAC106, TAC107, TAC108, TAC109, TAC110, TAC201, TAC301, TAC302, TAC303, TAC401, TAC601, TAC602, TAC603
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