



280 Watts

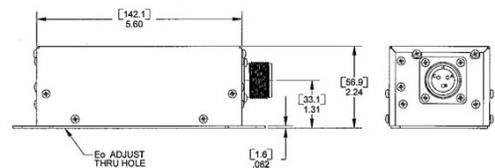
INPUT
12 to 28 VDC

REMOTE

OUTPUT
28 ± 0.4 VDC
regulated

OVERVIEW

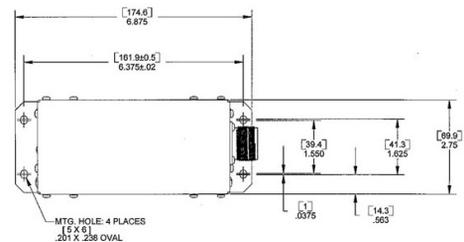
- The KGS model RH28 converts 14 Vdc input voltage to a regulated 28 Vdc output voltage. The converter is capable of delivering 280 Watts continuously at 28 Vdc and up to 10 amperes output.
- A state of the art "Synchronous Current Mode Switching" topology with Surface Mount Technology (SMT) is used to realize the power conversion. Control circuitry includes use of a popular Synchronous PWM controller for voltage regulation and overload current limit. Because of the design topology, application in critical 28 Vdc bus systems is recommended in order to deliver highly regulated 28Vdc.



NOTE:

- The dimensional tolerance is ±.005" [±1.5mm] unless otherwise specified.
- The above dimensions do not include protrusion of the screw heads.

Figure 201: Outline and Mounting Dimensions



RH28

APPLICATIONS

CS23 | CS27

- Tactical Radios
- Laptop 19V
- Mission Console

FAA TSO - C71



Electronic specifications, operating temperature -40 to 85°C

PARAMETERS	CONDITIONS
Input Voltage	Normal: 12 to 28 Vdc Abnormal: 8 to 36Vdc
Input Current	21.8 Amps typ at 14 Vdc input & @FL (0.5 Amps maximum at no load)
Overload	Unit will not suffer damage or degradation in performance from an overload input current of 50 Amps for 5 Sec or until a 25 Amp input circuit breaker trips
Output Voltage	: 28 ± 0.5 Vdc regulated for input voltage from 8 to 28 Vdc (Switching Mode) Follows input voltage for the input above 28 Vdc (Override Mode)
Output Current	0-10 Amps continuous. 15 amps for 5 minute
Power	280 Watts continuous for input voltage from 12 to 28 Vdc. 420 Watts for 5 minutes at 14 Vdc input voltage
Regulation	1% for line, 1% for load and 1% for temperature
Overload (OL)	Delivers 110% output power for 2 hours minimum
Protection (OL)	Withstands without damage or degradation, loads exceeding 110% of the rated current. Output voltage falls toward input voltage when load exceeds 20 Amps. Unit delivers rated output power upon removal of the overload (OL) conditions.
Protection (SC)	Unit is protected against output short circuit by an external 25 Amp input circuit breaker per MIL-C-5809
Efficiency	92% typical
Temperature	-55° C to +71° C
Altitude	55,000FT
Compliance	55,000FT
Environmental	DO-160D/C test, design similarity and/or design analysis: F2-BBB[STX]EWXDFSABAZZLXXXX
Weight	1.3 lbs.
Size	2.75 W x 6.875 L x 2.24 H inches Less protrusion of connector 69.9 W x 174.6 L x 56.9 H mm and screw heads
Cooling	Convection and thermal conduction through the bottom plate (No internal fan)
Finish	Gold iridite per MIL-C-5541 Class 1A

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