70W DC-DC Converter
Single Output, Isolated

Features:

- Wide Input Voltage Range
- Extended Operating Temperature
- Fixed Frequency Switching
- High Efficiency
- Low Ripple
- Thermal Shutdown (optional)

Packaging Options

- Hermetic
- Near-Hermetic (Moisture and Contamination Resistant, Gross Leak Tested)

Electrical Characteristics

Tc = 25 degC, unless specified otherwise.

PARAMETER	TEST CONDITIONS	MIN	TYP.	MAX	UNITS
Input Voltage	Tc = -55 to 125 degC Continuous, Transient, 1 s Other Transients	13	28	50 80 MIL-STD-704E	V
Startup Threshold Voltage	Tc = -55 – 125 degC Inhibit = H			13	V
Input Undervoltage Turn OFF	Tc = -55 – 125 degC Inhibit = H	11			V
Input DC Current	Vin = 28V, Vout = 28V Nominal Load No Load Inhibited			2.9 TBD TBD	A
Input Ripple Current	Vin = 28V Nominal Load			200	mA
Input Reverse Current	Peak Value I^2t Value			150	A A^2s
Hipot Voltage	Sea Level Input to Chassis Output to Chassis Input to Output		1000 500 1000		VDC
Total Output Power	Nominal, Tcase = 100 ℃ Tcase = 125 ℃		70 TBD		W

PARAMETER	TEST CONDITIONS	MIN	TYP.	MAX	UNITS
	Tc = -55 – 125 °C				
Output	Adjustable	23		29	V
Voltage Range	Line and Load		.1	.5	%
Regulation	B = 10kHz – 10MHz			100	mV
Ripple Voltage	Tc = 100 °C			2.9	A
Nominal Current	Tc = 125°C			TBD	A
	0 – 30 second		120		%
Overload Current	Step Load 50% to 100%		TBD		
Transient Response Time	Step Input 28V to 50V		TBD		
Inhibit Voltage	L = Power OFF H = Power ON	0 2.6		.5	V
Startup Delay	Vin = 28V		30		ms
Soft Start Ramp-up	Vin = 28V		5		ms
Efficiency	Vin = 28V, Pout = 70W, Tcase = 85 °C, Output = 28 Volts		87		%

Physical Characteristics

Temperature	
Operating	Tc = -55C to +125C
Storage	Tc = -65C to +150C
Altitude	
Operating	-2,000 ft to 60,000ft
Cooling	
Power Dissipation	< 12W Continuous
Thermal Impedance Case to Ambient	TBD
Outline	3” x 1.5” x .45”