

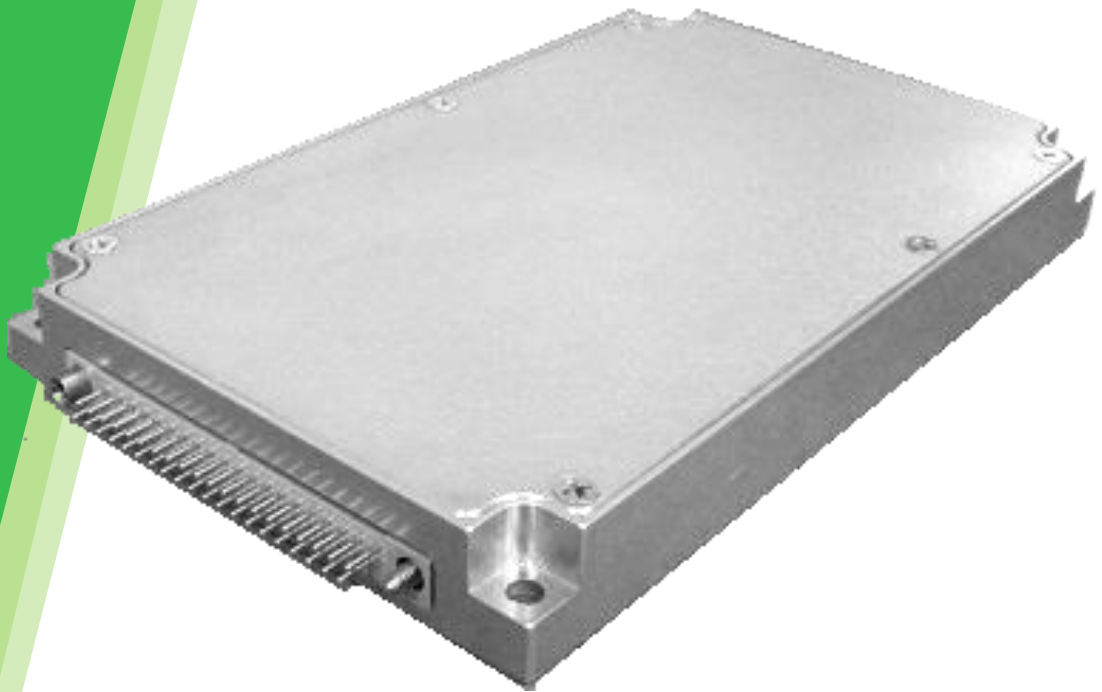


OHM
POWER
SOLUTIONS

M55D-3-1

70/75Watt

**Triple Output Isolated
DC/DC Converter**





Features:

- Designed to meet MIL-STD-1275A
- High Efficiency – up to 90% (*Full Load @ 25°C*)
- Fully protected for Over Load/Short, Over-voltage and Over-Temperature
- Triple output
- Base Plate cooling
- No external EMI filter needed

Typical applications:

- Military
- Ruggedized
- Telecom
- Industrial





General specification	
DC Input	
Input voltage range	16-33V _{DC}
Input Per MIL-STD-1275A	100V for 50ms - full performance.
Protection	Reverse Polarity Protection
DC Output	
Output voltage / Current	See table below
Line Load & Temperature regulation	< +/-2%
Current limit on each output	115% - 140% of rated current
OVP	Over-Voltage on each output
Turn on Transient	No turn on transient
Load Transient Overshoot & Undershoot	Less than 1.5% at 10%-90% Load change (<i>back to steady-state within 100μs</i>)
Isolation	
Input to Output:	100 V _{DC}
Input to Case:	100 V _{DC}
Output to Case:	100 V _{DC}
Interface	
Control Signals	INHIBIT ON/OFF TTL "1" or OPEN – Power supply is OFF TTL "0" or SHORT to SIGNAL RTN – Power supply is ON
External Sync	Optional
Environmental	
Operating Temperature	-40°C to +80°C Base plate
Over-Temperature protection	at 100°C with auto recovery
Shock & Vibration	per MIL-STD-810G
EMI-RFI	per MIL-STD-461G, CE102, CS101, CS114, CS115, CS116, CS118, RE102, RS103
Mechanical	
Size	168.52mm x 100.00mm x 24.62mm
Weight	<750 grams
Cooling	Base plate
Input / Output connector	AIRBORN RM 272-040-312-2900

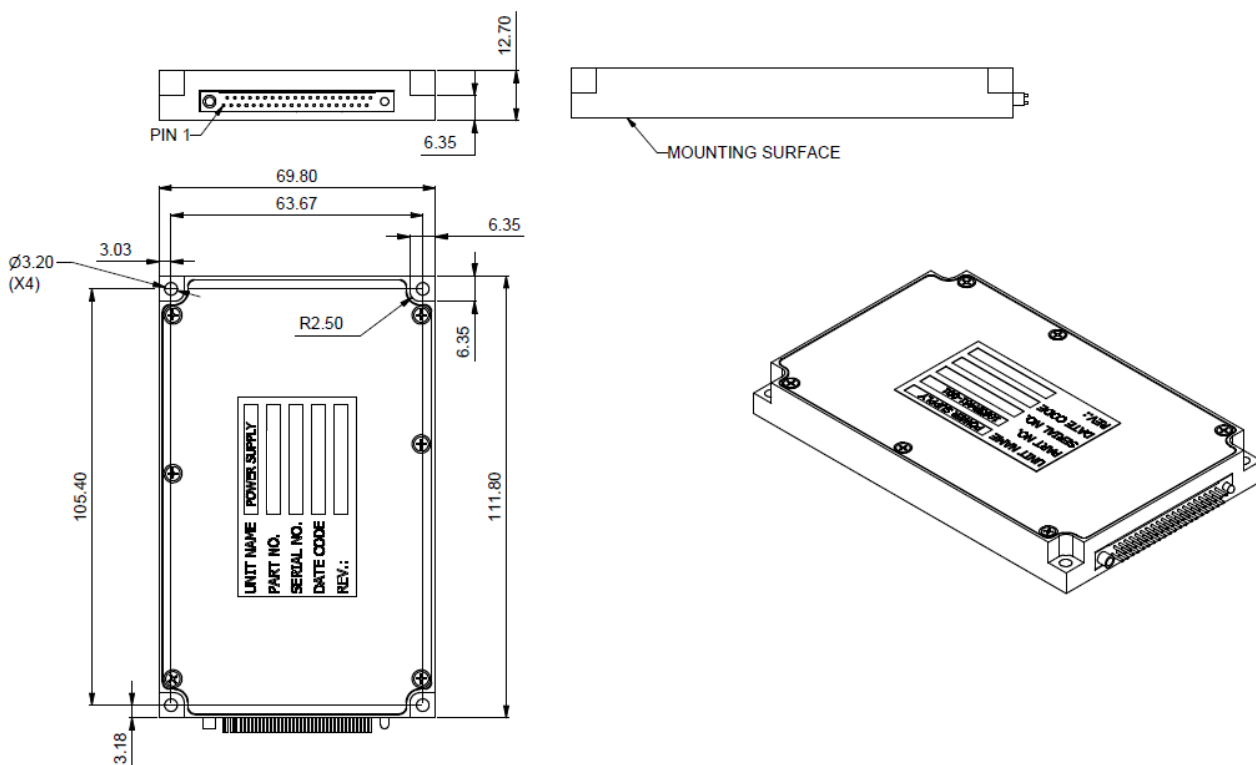
Ordering Information

MODEL #	OUTPUT #	INPUT Voltage (V)	OUTPUT Voltage (V)	OUTPUT Current (A)	POWER (W)	POWER TOTAL (W)	R&N (mV)
M55D-3-1	3	16-33	+3.3	5	16.5	75	50
			+5	10	50		50
			-5	1	5		50
M55D-3	3	16-33	+3.3	10	33	70	50
			+5	6.5	32.5		50
			-5	1/2.5	5/12.5		50

PIN Assignment

PIN #	PIN Function	PIN #	PIN Function	PIN #	PIN Function	PIN #	PIN Function
1	ENABLE	12	OUT 3 -5V RTRN	23	(-)OUT 1 +3.3V	34	(+)VIN 24VDC
2	SYN IN.	13	(-)VIN 24VDC	24	(-)OUT 1 +3.3V	35	(+)VIN 24VDC
3	(-)OUT 2 SENSE	14	(+)VIN 24VDC	25	(-)OUT 1 +3.3V	36	(+)VIN 24VDC
4	(-)OUT 1 +3.3V	15	N.C. (PWR. S O.K)	26	(-)OUT 1 +3.3V	37	(+)OUT 2 +5V
5	(-)OUT 1 +3.3V	16	N.C. (SYN. O.K)	27	(+)OUT 1 +3.3V	38	(+)OUT 2 +5V
6	(-)OUT 1 SENSE	17	(-)OUT 2 +5V	28	(+)OUT 1 +3.3V	39	(+)OUT 2 +5V
7	(+)OUT 1 +3.3V	18	(-)OUT 2 +5V	29	(+)OUT 1 +3.3V	40	(+)OUT 2 +5V
8	(+)OUT 1 +3.3V	19	(-)OUT 2 +5V	30	(+)OUT 1 +3.3V		
9	(+)OUT 1 SENSE	20	(-)OUT 2 +5V	31	(-)VIN 24VDC		
10	OUT 3 -5V	21	SIGNAL RTN	32	(-)VIN 24VDC		
11	(+)OUT 2 SENSE	22	CHASSIS	33	(-)VIN 24VDC		

Outline Drawing



Note: Specifications are subject to change without prior notice by the manufacturer.
Additional configurations and modifications available. Contact us for more details.