

P-9205

**120Watt, Military,
Single Output DC/DC Converter**



Main Features:

- Miniature size - wide input range
- Non-isolated output
- For Airborne, Missile & Ground applications
- Meets MIL-STD-704D
- High efficiency (typically 90%) - base plate cooling
- Fully protected for over-load short circuit & over-voltage
- Output can be modified upon customer request
- CAN BUS
- EMI filter included

Typical Applications:

- Electronic Warfare (EW) Systems
- Radar Warning Receivers (RWR)
- Missiles
- Navigation Systems

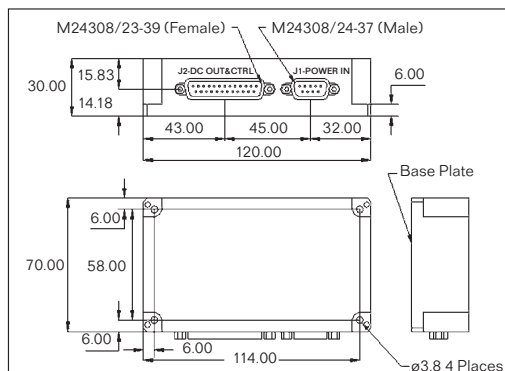
Ordering Information:

Model #	Voltage	Current	Power	R&N
900-9205-0000	12V	10A	120W	30mV

Product Specifications:

Input	Input voltage range 18-36VDC Mil-Std-704D Protected for input transients - up to 50V for 100mSec Input injected ripple - up to 1.5V RMS Reverse Polarity Protection
Output	Output voltage / current - see table "Ordering Information" Line load & temperature regulation +/-1% Current limit and short circuit protection on each output - 110-130% of rated current Over-voltage on each output - latched shut down at 125% typical Isolation - Input/Output & Input/Case - >200VDC Output/Case - 100 VDC
Controls	ON/OFF signal - TTL CAN BUS
Environment	Operating temperature -45°C - +95°C Base plate Storage temperature - -45°C - +95°C scale accordingly Vibration per Mil-Std-810D Shock per Mil-Std-810D EMI-RFI per Mil-Std-461D Filter included inside CE-101, CE-102, CS-102, CS-101, CS-114, CS-115, CS-116, RE-101 RE-102, RS-103 MTBF 40,000 hours typical at 45°C base plate for AIF Per Mil-Hdbk-217F notice-2
Mechanical	Size - 70mm x 120mm x 30mm Weight - 300 gram Cooling - Base plate Input connector - 9 Pin D-type Male Output connector - 25 Pin D-type Female

Outline Drawing



Connector Pin-Out:

J1 Input connector: 9-Pin D-Type Male		J2 Output & Control connector: 25-Pin D-Type Female					
Pin #	Function	Pin #	Function	Pin #	Function	Pin #	Function
5,9	Spare	1	CAN BUS L	9	12VDC RTN	17	DIG 5V ⁽⁵⁾
1, 2, 6	28 VDC IN	2	N.C.	10	12VDC RTN	18	B1 ⁽³⁾
3, 7, 8	28 VDC IN RTN	3	Prog. DATA	11	12VDC	19	Analog IN0 ⁽⁴⁾
4	OFF	4	P.S. Fail Flag ⁽¹⁾	12	12VDC	20	Analog IN3 ⁽⁴⁾
		5	I1 ⁽²⁾	13	12V DC	21	Analog IN4 ⁽⁴⁾
		6	BO ⁽³⁾	14	CAN BUS H	22	12VDC RTN
		7	B2 ⁽²⁾	15	Program CLK	23	12VDC RTN
		8	Analog IN1 ⁽⁴⁾	16	VPP	24	12VDC
						25	12VDC

⁽¹⁾ open drain output (optional VDD pull-up)
⁽²⁾ general purpose TTL level input flag (10K pull-up to 5V) ⁽³⁾ general purpose TTL level output flags
⁽⁴⁾ general purpose analog inputs to internal A/D converter ⁽⁵⁾ internal uC VDD rail. External drawn current limit is 200mA.