

M185 SERIES

QUAD OUTPUTS
UP TO 150W
AC/DC CONVERTERS

APPLICATIONS

Military, Ruggedized, Telecom, Industrial

SPECIAL FEATURES

Four (4) DC outputs
High efficiency
Wide input range
Input / Output isolation
Fixed switching frequency (250KHz)
EMI/RFI filters included
Inhibit – Isolation from input & output
External synchronization
Indefinite short circuit protection with auto-recovery
Over-voltage protection
Over temperature shutdown with auto-recovery

ENVIRONMENTAL

Meets or exceeds MIL-STD-810D

Temperature:
Operating -40°C to +90°C (baseplate)
Storage -55°C to +125°C

RELIABILITY

150'000 hours, calculated per
MIL-STD-217F at +85°C baseplate,
ground fixed.



ELECTRICAL SPECIFICATIONS

INPUT

AC Input - Universal:
115VAC, 400Hz, Single Phase
Power Factor: 0.98

Efficiency: up to 75%

EMI/RFI:

Design to meet or exceed MIL-STD-461D
CE101, CE102, CS101, CS114, CS115,
CS116, RE101, RE102, RS101, RS103

Isolation:

500V between AC Input and Output
500V between AC Input and Case

DC OUTPUT (floating)

Line /load regulation:
Less than 1% (no load to full load, -40°C to +90°C)
Ripple and noise: 50mVp-p, typical (max. 1%)

Current limiting (FoldBack or Hiccup):
Continuous protection for unlimited time.

Over voltage protection:
Passive transzorb on outputs or Electric Protection.

Over temperature protection:
Shutdown at baseplate temperature of +105°C (±5°C)
Automatic recovery at baseplate temperature
lower than +95°C (±5°C)

Isolation:

100V between Output and Case

PIN ASSIGNMENT (J2, Output, D-Type 37S / J1, Input, D-Type 9P)

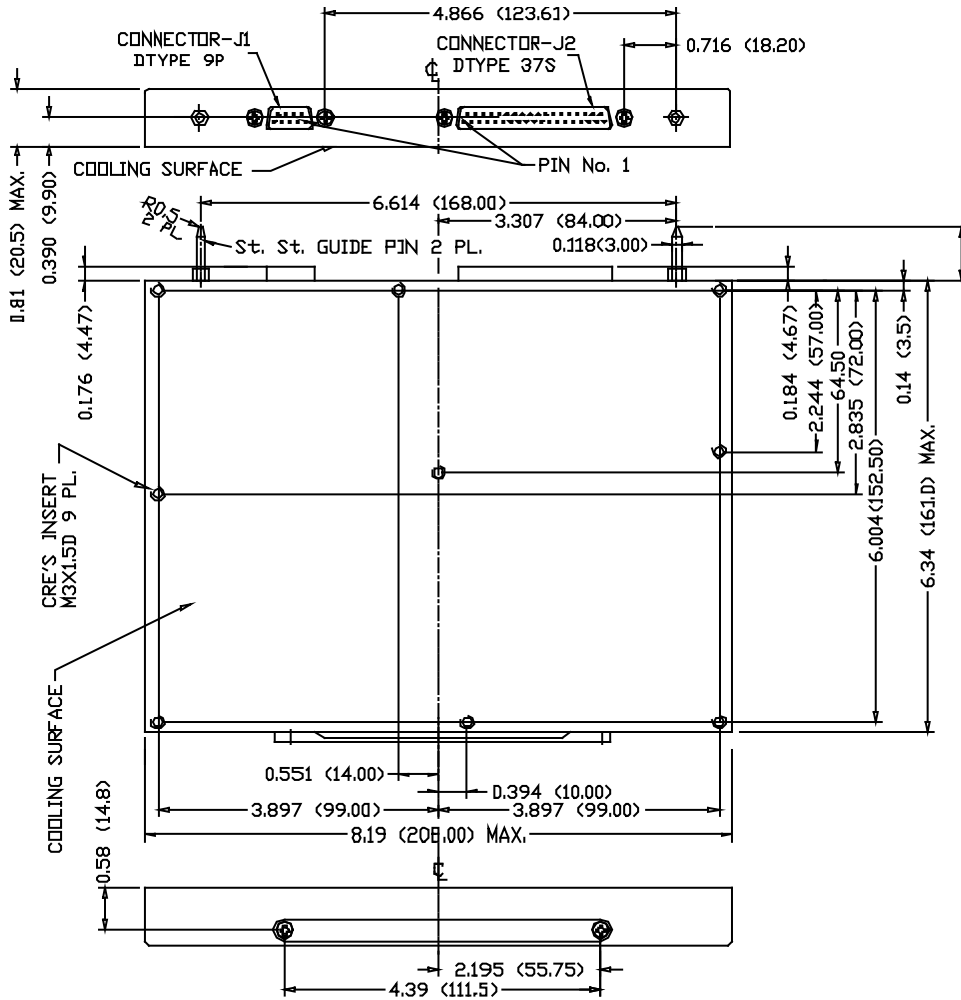
Pin No.	J2 Pin Function
1	INH
2	SYN
3	- OUT #3
4	+OUT #3
5	+OUT #3
6	+OUT #2
7	N.C.
8	+OUT #1
9	- OUT #4
10	- OUT #4
11	- OUT #4
12	- OUT #4
13	- OUT #4

Pin No.	J2 Pin Function
14	+OUT #4
15	+OUT #4
16	+OUT #4
17	+OUT #4
18	+OUT #4
19	SENSE
20	INH RTN
21	SYN RTN
22	- OUT #3
23	- OUT #3
24	+OUT #3
25	- OUT #2
26	- OUT #1

Pin No.	J2 Pin Function
27	SENSE RTN
28	- OUT #4
29	- OUT #4
30	- OUT #4
31	- OUT #4
32	- OUT #4
33	+OUT #4
34	+OUT #4
35	+OUT #4
36	+OUT #4
37	+OUT #4

Pin No.	J1 Pin Function
1	CHASSIS
2	N.C.
3	AC RTN
4	N.C.
5	AC IN
6	N.C.
7	AC RTN
8	N.C.
9	AC IN

OUTLINE DRAWING



*Specifications are subject to change without prior notice by the manufacturer

Notes

1. Dimensions are in Inches [mm]
2. Tolerance is:
.XX ±.02 IN
.XXX ±.01 IN
3. Weight: 40 Oz (1150gr)