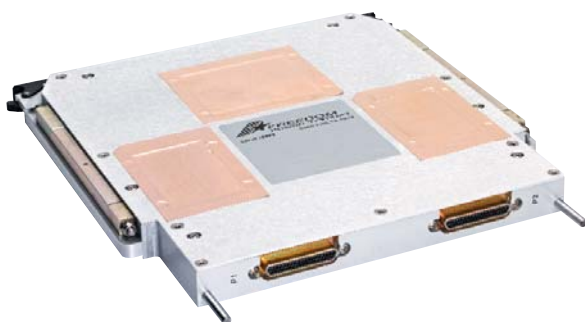


FP SEM-E – SEM-E Form Factor Power Sources

- 0.58 in. width
- SEM-E form factor
- 5/7/8 outputs
- Conduction cooled
- MIL-STD-704E/F input
- Less than 1.75 lbs
- Fully isolated outputs



Space Saving 0.58" SEM-E Design Offers 5/7/8 outputs

At only 0.580" thick, these rugged SEM-E DC-DC supplies offer exceptional power density, efficiency, and versatility. These light weight, tightly regulated, low noise supplies offer performance superior to many twice their size.



Choose an Existing or Custom Configuration

- Eight output 95 W (200 W surge)
(1.5 V, 3.3 V, 5.0 V, ± 8.0 V, ± 15 V, 24 V)
- Seven output 100 W (250 W surge)
(1.5 V, -2.0 V, 3.3 V, 5.0 V, -5.2 V, ± 15 V)
- Five output 130 W (200 W surge)
(5.0 V, 8.0 V, ± 15 V, 24 V)
- Custom configurations available

Ruggedized Design

- Operating temperature: -40°C to 85°C (coldplate)
- Storage Temperature: -65°C to 85°C
- Altitudes to 70,000 feet, per 4.6.2.2 MIL-HDBK-5400
- Optional 105°C vacuum / low outgassing per MIL-HDBK-454
- Functional shock per 4.6.2.6.1 MIL-HDBK-5400 (20g Peak, 11ms duration)

Input Power

- 28 Vdc (MIL-STD-704E/F)

EMI

- MIL-STD-461E CE101, CE102, CS101, CS114, CS115, CS116

FP SEM-E – SEM-E Form Factor Power Sources

Input Power: 18 – 36 Vdc

Configuration 1003 – Five Output

Output Voltage (V)	Power (W)		Current (A)		Ripple + Noise ^[b] (mV p-p)		Voltage Tolerance (%)	Remote Sense (mV)
	Continuous	Surge ^[a]	Continuous	Surge ^[a]	Typ.	Max.		
5	0.8	13.0	0.76	2.6	14	50	+5/-5	–
8	3.9	53.4	3.89	6.67	36	80	+5/-5	–
15	1.0	30.0	1.04	2	23	140	+5/-5	–
-15	0.3	10.1	0.34	0.67	16	140	-5/+5	–
28	2.7	100.0	2.71	3.57	27	210	+5/-5	–

Configuration 1000 – Seven Output

Output Voltage (V)	Power (W)		Current (A)		Ripple + Noise ^[b] (mV p-p)		Voltage Tolerance (%)	Remote Sense (mV)
	Continuous	Surge ^[a]	Continuous	Surge ^[a]	Typ.	Max.		
1.5	10.8	15.0	7.20	10	16	30	+3/-2	150
-2	5.0	5.9	2.50	2.94	9	30	-3.5/+2.5	–
3.3	13.0	24.8	3.94	7.5	18	30	+4/-3	150
5	36.9	100.0	7.38	20	20	50	+3/-2	500
-5.2	28.2	104.0	5.42	20	15	50	-4/+3	500
15	7.8	10.1	0.52	0.67	22	150	+4.5/-3.5	–
-15	1.7	10.1	0.11	0.67	16	150	-4.5/3.5	–

Configuration 1002 – Eight Output

Output Voltage (V)	Power (W)		Current (A)		Ripple + Noise ^[b] (mV p-p)		Voltage Tolerance (%)	Remote Sense (mV)
	Continuous	Surge ^[a]	Continuous	Surge ^[a]	Typ.	Max.		
1.5	14.7	15	9.80	10	13	30	+3/-2	150
3.3	15.3	24.75	4.64	7.5	11	30	+4/-3	150
5	10.5	13	2.10	2.6	6	50	-3/-2	–
8	13.6	53.36	1.70	6.67	47	80	+5/-4	500
-8	10.5	13	1.31	1.625	21	80	-5/+4	–
15	25.9	100.05	1.73	6.67	54	150	+4.5/-3.5	–
-15	2.7	10.05	0.18	0.67	18	150	-4.5/+3.5	–
24	1.4	6	0.06	0.25	128	240	+5/-4	–

^[a] Single event less than ten seconds in duration.

^[b] At full load. Measurement BW = 20 MHz.