

Figure 1. Power Derating Curve MBE1000

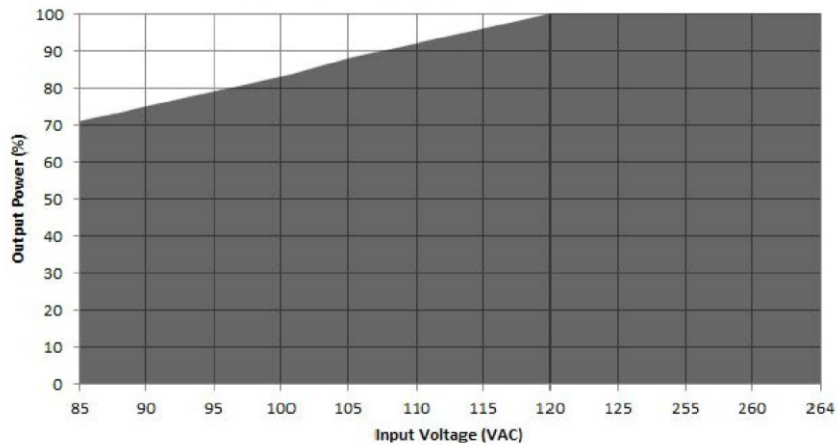


Figure 2. Power Derating Curve w.r.t. Input

Notes:

1. For Ripple measurement minimum output power requirement is 25 W.
2. Ripple is peak to peak with 20 MHz BW and 10 μ F (Tantalum capacitor) in parallel with a 0.1 μ F capacitor at rated line voltage and load ranges.
3. Please contact factory/ sales representative for minimum load required for ripple to be within specification.
4. Combined output power of main output, fan supply and standby supply shall not exceed max. power rating.
5. Standby output voltage 5 V/ 1.5A with tolerance including set point accuracy, line and load regulation is +/-10%.
6. Ripple and noise is less than 5%.
7. Specifications are for nominal input voltage, 25°C unless otherwise stated.
8. PSU is supplied with J3, pin-6 and pin-7 shorted to enable main output without remote on/off feature.

4. ENVIRONMENTAL SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	SPECIFICATION
Operating Temperature	Refer to derating curve	-40 to +70°C
Storage Temperature		-40 to +85°C
Relative Humidity	Non-condensing	5% to 95%
Altitude	Operating: Non-operating:	16,000 ft. 40,000 ft.
MTBF	Telcordia -SR332-issue 3	1.28 million hours

5. EMC SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	CRITERIA
Conducted Emissions	EN 55011-B, CISPR22-B, FCC PART15-B	Class B
Radiated Emissions	EN 55011	Class A (Class B external toroid)
Input Current Harmonics	EN 61000-3-2	Class A
Voltage Fluctuation and Flicker	EN 61000-3-3	Complies
ESD Immunity	EN 61000-4-2	A
Radiated Field Immunity	EN 61000-4-3	A
Electrical Fast Transient Immunity	EN 61000-4-4	A
Surge Immunity	EN 61000-4-5	A
Conducted Immunity	EN 61000-4-6	A
Magnetic Field Immunity	EN 61000-4-8	A
Voltage Dips, Interruptions	EN 61000-4-11	A & B

6. SAFETY SPECIFICATIONS

PARAMETER	DESCRIPTION / CONDITION	SPECIFICATION
Isolation Voltage	Input to Output Input to Earth Output to Earth	4245 VAC 1625 VAC 1500 VAC
Safety Standard(s)	EN60601-1, IEC 60601-1 (ed.3), ANSI/AAMI ES 60601-1, CSA C22.2 No. 60601-1	Pending
Agency Approvals	Nemko, UL, C-UL	Pending
CE mark	Complies with LVD Directive	Pending

7. SIGNALS

PARAMETER	DESCRIPTION / CONDITION
Power Good / Fail Signal	Power Good: Is a TTL signal which goes high after main output reaches 90% of its set value. The delay is 0.1 s to 0.5 s Power Fail: The same signal goes low at least 1ms before main output falls to 90% of set value at AC Power off
Remote Sense	Compensates for 200 mV drop
Remote On / Off	Pin 6 & Pin 7 of J3 can be used for Remote on/off. Shorting Pin 6 to Pin 7 enables main output while keeping the pins open disables main output
OCP Limit Set	Pin 8 & Pin 9 of J3 must be shorted