

Power Supplies For PoE and PoE+



Description

- These supplies are used with Luxcom's OM1006A and OM4-POE, OM1G-PSE modems.
- These supplies are fully isolated IEC/EN 61140 protection class II, double insulated.
- They have a two prong North American plug and a 1.5 meter cable.
- Replacement warranty is five years.

PoE Power Budget

- The power supply is ordered separately from the modem; because the sizing of the supply depends on the user's PoE/PoE+ load requirements.
- If the modem has a 48V power supply it will power POE loads only.
- If the modem has a 54V power supply it will power PoE and PoE+ loads.
- Luxcom modems typically use 3 to 5 Watts without a PoE load; the power supply must source this power in addition to the PoE load.
- Size the power supply according to the number of loads, the load requirement of each load, and the temperature derating of the supply.

IEEE Standards

PoE Type	Power Supply Min. Voltage	Maximum Power at source Watts	Maximum Power at load Watts	Number of pairs used on RJ45	IEEE Standard
Type-1 (PoE)	44	15.4	13	2	802.3af
Type-2 (PoE+)	44	30	25.5	2	802.3at
Type-3	50	30	25.5	2	802.3bt
Type-3	50	60	51	4	802.3bt
Type-4	52	90	71	4	802.3bt

The difference between source power and load power is lost in the cable which may be up to 100 meters.



Power Supply Part Numbers

Luxcom Part Number	Output Power	Output Voltage	Size cm	PoE Type
LTIPS-54-2.3-U-2	120 W	54	19x6x4	1-4
LTIPS-54-1.67-U-2	90	54	17x6x4	1-3 (4-pair)
LTIPS-54-1.12-U-2	60	54	13x5x4	1-3 (2-pair)
LTIPS-48-0.75-U-2M	36	48	8x5x3	1-2
LTIPS-48-0.75-U-2	36	48	11x5x2	1-2

Input voltage 90- 264 VAC (50-60Hz); Isolation I/P to O/P > 3.75 K VAC

Power Supply Temperature Derating

