

With over 16 years of experience in the field we have become an expert in instrumentation and station installations. QuakeLogic engineers will define with you the best solution and provide a quality service to ensure optimum performance of your monitoring systems.

POWER CONSUMPTION AND UPS CAPACITY CALCULATION FOR SEISMIC INSTRUMENTATION



LUNITEK ATLAS 9 Channels (no WiFi, no 4G, 250Sps recording, internal battery charged, no sensors attached) ~2.5W

LUNITEK ATLAS 9 Channels (no WiFi, no 4G, 250Sps recording, internal battery charged, Lunitek Mems + Lunitek Tellus sensors attached) ~3.2W

Maximum Power Consumption with internal battery flat ~16W.

Total power consumption (Atlas+Sensors) at 5W (at safe side).

For 24-hour backup power: A lead acid battery with a 9Ah capacity is needed ($5 \times 24 = 120\text{W}$, $120\text{W}/13.8\text{V} = 8.6\text{Ah}$). **(600VA UPS is recommended)**

For 3-weeks backup power: $120\text{W} \times 3 \times 7 = 2520\text{W}$ **(3kVA UPS is recommended)**

In addition to this an extra day guaranteed by the Atlas internal battery.