QUAKELOGIC
Earthquake Risk Management Solutions

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 SOLAR & BACKUP BATTERY CAPACITY CALCULATION FOR A SEISMIC STATION


**DIGITIZER:** LUNITEK ATLAS-F (with 4G GSM module, 250 samples-per-second recording, internal battery charged)

**SENSOR:** LUNITEK LTME accelerometer

Total power consumption = ~5W

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**For 24-hour power**: 5x24=120W, 120W/13.8V=~9Ah.

120W solar panels, a 12V 12 Ah battery, and charge controller are needed.

**<u>In addition to this, an extra day guaranteed by the Atlas internal battery.</u>**

**Note:** Atlas power input should be connected to the solar controller output. An open-end power cable will be provided for this connection.

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