SnT 2025 CTBT: SCIENCE AND TECHNOLOGY CONFERENCE
8 SEPTEMBER ONLINE DAY
9 TO 12 SEPTEMBER AT HOFBURG PALACE, VIENNA & ONLINE

# The performance of back up power at KMBO primary seismic station post upgrade

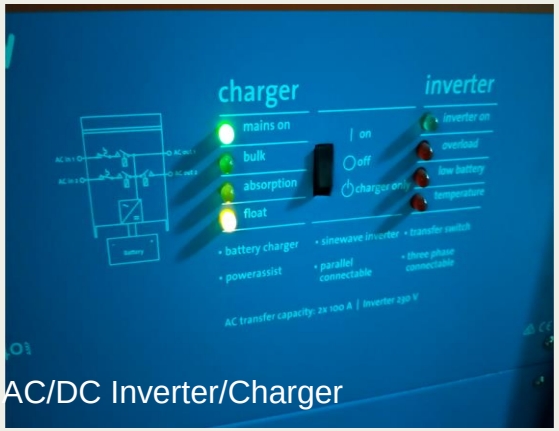
LIGHTNING TALK

Josphat K. Mulwa[1], John Opiyo[2] and Reagan Onditi[3]
[1]University of Nairobi, Department of Earth and Climate Sciences, Nairobi, Kenya
[2]National Commission for Science, Technology and Innovation, Nairobi, Kenya
[3]University of Nairobi, Department of Computing and Informatics, Nairobi, Kenya

P4.4-082

,

- Our poster paper demonstrates how critical stable power can be for remote IMS stations.
- For KMBO seismic station, CDGA ENGINEERING CONSULTANTS LTD undertook power assessment survey in August 2019.
- Power upgrade involving installation of back up power supply (IRS-149702) was undertaken from August to October 2021.
- Power back up from battery banks proved to be the only optimal solution to rampant mains power outages.
- The back up power is now able to last for twenty one (21) days without AC mains power.



AC/DC Inverter/Charger


AC Power Stabilizer


2V – 24 Battery Bank

NACOSTI National Commission for Science, Technology and Innovation