





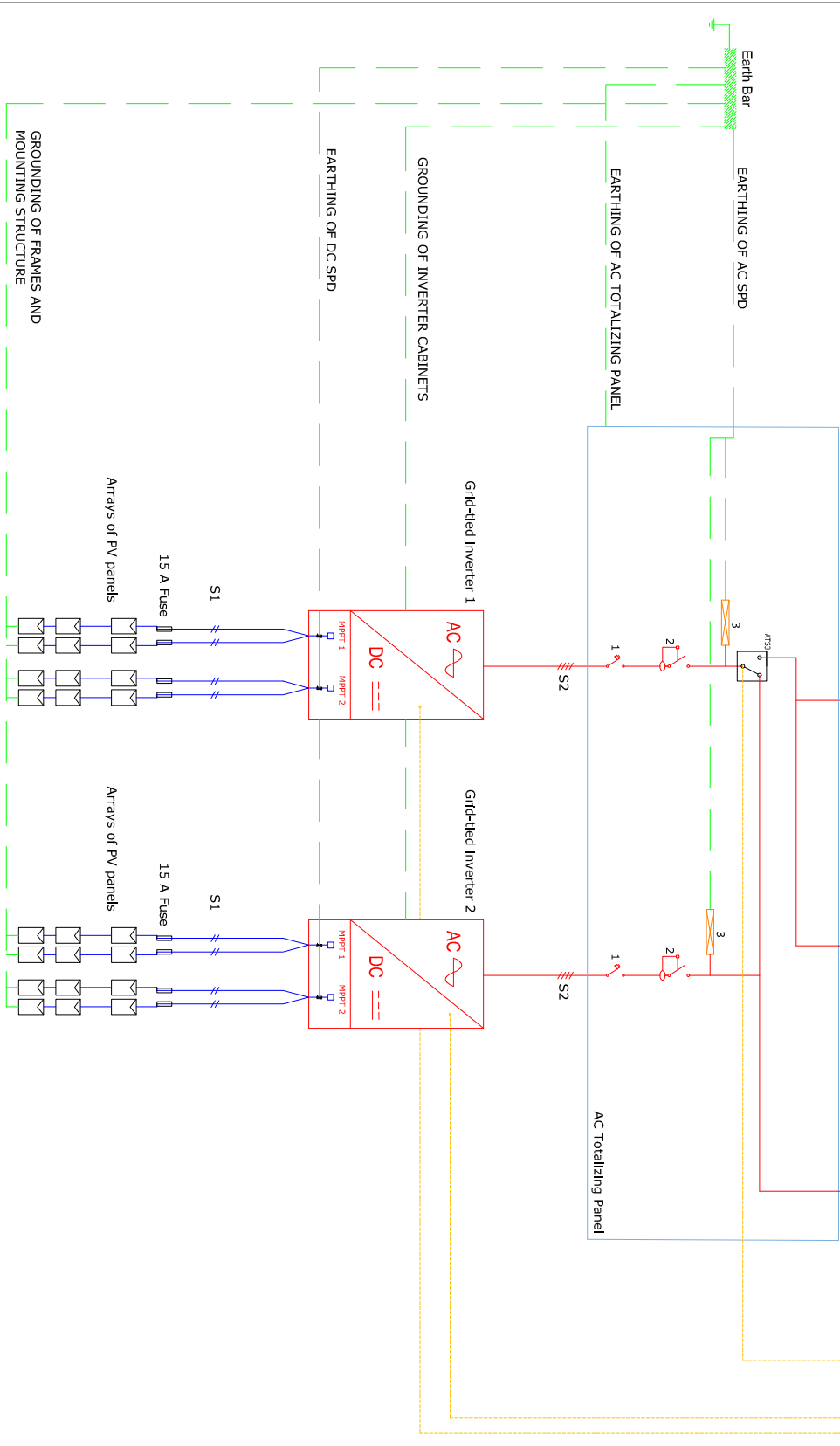


SYMBOLS

- CIRCUIT BREAKER 4P CUMINE B RATED AS PER GRID-TIED INVERTER CAPACITY
- DIFFERENTIAL SWITCH 4P TYPE A OR AC 300 mA RATED AS PER GRID-TIED INVERTER
- Surge Arrester SPCT2 460/4 RATED AS PER GRID-TIED INVERTER, Up ≤ 1.75 kV, Imax = 40 kA, In = 20kA
- CIRCUIT BREAKER 4P CUMINE B RATED AS PER SUM OF GRID-TIED INVERTERS CAPACITY
- THREE PHASE BI-DIRECTIONAL POWER ANALYZER
- Surge Arrester DC SIDE TYPE 2, Up ≤ 4.5 kV, Imax = 25 kA, In = 12.5 kA

Note 1.2: This connection point serves only as an example.



Note1.1: Additional Type 2 SPDs for the DC strings are required if the distance between the inverters and the PV panels is greater than 10 meters. These SPDs should be installed at a distance less than 10 meters from the PV panels.

| Maximum Allowable Voltage Drop | | |
|--|--|-------|
| Cable | | %ΔV |
| S1 | | 0.50% |
| S2 & S3 | | 2.00% |
| All cables must be UV and water resistant, DC cables shall be of the type Cu-PVC 0.6/1 kV. | | |

| SYSTEM DESCRIPTION | |
|--|--|
| THE SYSTEM IS A HYBRID SOLAR SYSTEM DESIGNED TO DECREASE THE UTILIZATION OF DIESEL AND ENERGY FROM THE GRID. | |
| MAIN COMPONENTS: | |
| PV CAPACITY: 40 KWp | |
| GRID-TIED INVERTER TOTAL CAPACITY: > 36 kW | |
| SYSTEM ARCHITECTURE: GRID CONNECTED HYBRID SYSTEM | |
| NOTE: CONFIGURATION SERVERS TO BE AN EXAMPLE ONLY | |

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| DRAWING: SINGLE LINE DIAGRAM |
| PROJECT: TEBNINE PUBLIC SCHOOL |
| BENEFICIARY: TEBNINE MUNICIPALITY |
| PV/LB 22.1 |