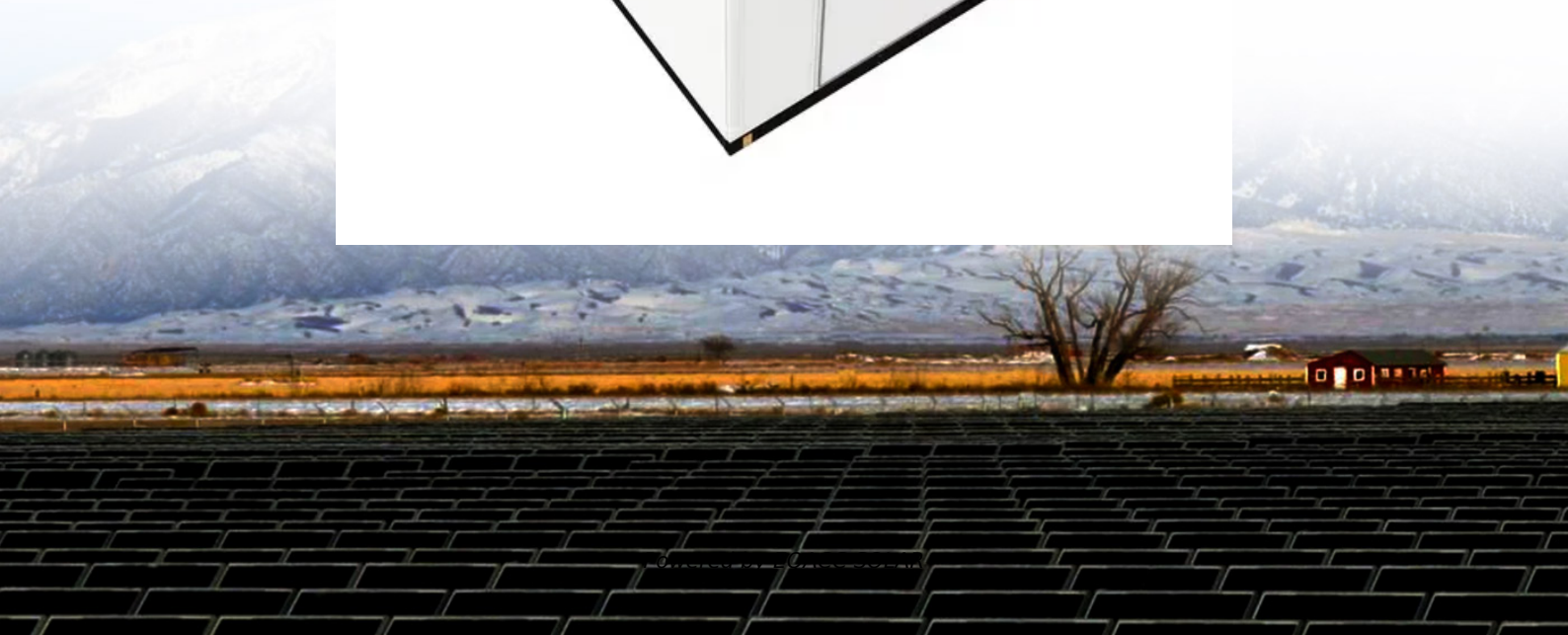


EQACC SOLAR

Uninterrupted power supply and lightning protection for Riyadh solar container communication station



Overview

What is an external lightning protection system?

An external lightning protection system (external LPS), is intended to intercept the stepped leader through an air termination system, to conduct the lightning current safely towards ground level via a down conductor and to conduct the lightning current into the earth through an earth termination system , (Table 6). Table 6.

Are there standards for lightning protection system installation?

No doubt that there are standards govern the lightning protection system installation for building and the solar PV itself which can be obtained from the International Electrotechnical Committee (IEC) and various other national and international standards, respectively.

What happens if a PV system is not protected against lightning?

Many PV systems may not be properly protected against lightning. Due to this exposure, the PV systems may be liable to suffer a crucial impact in a way that can lead towards severe damage for instances; failure of the electrical and electronic parts in the building or PV installation and disruption of their normal operation.

How will a lightning protection system affect PV power generation?

All this kind of destruction will undoubtedly affect the economic aspects or the return on investment that could be earned from PV power generation as well as the cost of repair or replacement to recover from the damage, all of which can be mitigated by implementing a lightning protection system (LPS) .

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Lightning protection on photovoltaic systems: A review on ...

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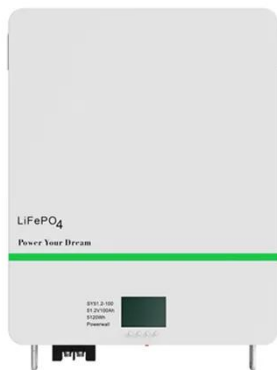
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