Bidirectional charging of photovoltaic containers at airports

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How can bidirectional charging/discharging a battery achieve maximum PV power utilization?
In addition, with the proposed strategies, the bidirectional charging/discharging capability of the battery is able to achieve the maximum PV power utilization. All the proposed strategies can be realized by the digital signal processor without adding any additional circuit, component, and communication mechanism.

How many photovoltaic panels will be installed at Vienna airport?
,000 photovoltaic panelsthis plant will be Austria's largest ground-mounted plant.After commissioning in spring 2022,the photovoltaic plants at the Vienna Airport site will generate an output of around 30 million kilowatt hours of solar power per year,and thus will cover around 30 per cent of Vienna Airport

Why should a PV Charger abandon the maximum power point tracking function?
Traditionally,in order to realize these charging strategies,the PV charger should abandon the maximum power point tracking function to maintain the power flow balance. As a result,the output power of the PV array will be decreased.

What is bidirectional power flow control?
Therefore, bidirectional power flow control strategies are proposed to achieve the maximum PV power utilization as well as to realize the hybrid charging methods. In addition, with the proposed strategies, the bidirectional charging/discharging capability of the battery is able to achieve the maximum PV power utilization.

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