

PRODUCT BROCHURE FOR GOLF CART MANUFACTURERS

Golf Cart Solar Kit

A flexible roof solar panel paired with our 48V 100Ah LiFePO4 golf cart battery. Live solar power while you drive, recharge from the sun, no external charging needed.

48V	**4.8 kWh**	**300-450 W**	**15**
100Ah LiFePO4 battery	Rated energy	Flexible roof panel	BMS protection levels

HOW IT WORKS

Live solar power. Recharge from the sun.



A thin flexible panel bonds to the cart canopy and feeds the motor in real time. Whatever the motor does not use tops up the battery, on the course or parked in the lot.

- Lightweight and low profile, the cart keeps its look and handling
- Bonded to the roof, no drilling into structural parts
- Weather sealed for rain, heat and humidity
- Sized to the 48V system, ready for OEM integration

1

Sun hits the roof panel

A flexible panel follows the curve of the canopy with no bulky frame.

2

MPPT controller

A 48V MPPT charge controller turns panel output into safe charging.

3

Battery stays topped up

Solar goes to the motor first while driving, the rest charges the battery.

4

More range, less plugging in

Carts recover charge between rounds, at the clubhouse or in the lot.

About 1.5 to 2 kWh a day

A typical two or four seat roof fits about 300 to 450 W of flexible solar. In Costa Rica sun that is roughly 1.5 to 2 kWh a day in good conditions, several extra kilometers of range every day.

WHY MANUFACTURERS CHOOSE IT

- **Lighter and slimmer** than glass panels
- **Protected battery** with over-charge, over-discharge and over-current protection
- **Free energy every day**, lower charging cost and more uptime





TECHNICAL SPECIFICATIONS

Golf Cart Battery 48V 100Ah

Nominal voltage	**48V**
Rated capacity	**100Ah (about 4.8 kWh)**
End-of-charge voltage	**54.75V**
End-of-discharge voltage	**40.5V**
Max. charge current	**50A / 200A fast**
Max. discharge current	**200A**
Communication	**RS485**
Size (mm)	**475*315*200 / 530*315*240**
Weight	**~50 kg**

Self-developed BMS with 15 levels of protection, high-rate discharge, long cycle life and communication protocol customization.

CASE STUDIES

Solar golf carts in real use



RESORT FLEET

Beach resort shuttles

Carts recharge from the sun between guest trips. No charging station or external charging needed.



GOLF CLUB

Course cart fleet

Carts stay topped up from daylight alone, so staff no longer plug in the fleet every night.



MANUFACTURER

OEM factory fitting

Bonded panel, wiring and controller fitted on the line with no chassis redesign.

Examples are typical scenarios. Panel output and range depend on cart model, roof area, weather, driving style and load. Figures are estimates. We size each system with you.

Book a free consultation

We review your cart model, roof size and battery needs at no cost and no obligation.

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