

Energy Flyer

Energy Flyer is the most advanced solar USB charger in the market. The perfect choice for people who need energy without compromises, in the most critical missions, for leisure or work.

The solar panel

Four high efficiency back-contact cells encapsulated in a polymeric structure suited to resist impacts and weathering. A total power of more than 12 W and a special sensitiveness in low light condition. The panel frame protects the edges and the four holes in the corners allows fixing the Energy Flyer to your backpack or on your tent.

The electronics

A MPPT charger able to maximize the solar panel power and in the meanwhile offer a stable 5V power supply via a standard USB port. The charger is powered directly by the solar panel, even without any battery you will see its LED indicator glowing green as soon as enough light will shine on the panel face. The green light will turn red when a USB device is connected, signaling the charging status.





Specifications

Solbian Charger is a DC-DC boost converter designed to maximize the power generated by photovoltaic panels for any external condition of temperature and solar radiation intensity. Optimization of power conversion is obtained with embedded logic performing a Maximum Power Point Tracking (MPPT) algorithm on the PV module connected to the converter. The embedded charge controller prevents battery overvoltage and overcurrent. Safety of the application is guaranteed by automatic halt of the driver in case of output overvoltage or overtemperature.

Product	Solar panel All-In-One
Power at STC [W] ①	12.5
Power tolerance [%]	± 3
Length [mm]	280
Width [mm]	280
Thickness (Electronic excluded) [mm]	4
Weight [kg]	0.4
PV solar cells no.	4
PV solar cells	SunPower Maxeon back contact
Operating temperature [°C]	-40 / +85
Technology	MPPT Boost
Max. output current [A]	2.4
Output voltage [V]	5 (USB)
Efficiency [%]	98
Night / Standby consumption [W]	0
Certifications	CE, RoHS
Connection	USB port
Environmental protection	IP 20
Warranty [year] ②	2

① Values at STC = Standard Test Conditions: (a) light spectrum for an air mass of 1.5; (b) irradiance of 1000 W/m² with perpendicular incidence and (c) cell temperature of 25 °C. Measurements carried out according to the Standard IEC 61215 requirements.

② See the Solbian "Warranty conditions" for more information.③ Consultare le "Condizioni di garanzia" Solbian per ulteriori informazioni.

Certifications

