SOLAR ENGINE

MINI **COMPACT** **OPTIMA** **MAX**

24 VDC

FEATURES

- Applicable for different airfield lighting equipment
- Energy efficient solar panel
- Modular / user-replaceable design
- Variable solar engine size

APPLICATION

S4GA Solar Engines are designed to power airfield lighting by solar energy.

SE-40

SOLAR ENGINE MINI

TECHNICAL SPECIFICATIONS

General	
Solar Panel	• Solar Panel Size: 40 W • Adjustable and replaceable solar panel • Anti-glare coated solar panel
Power Bank	• Power Bank Capacity: 336 Wh • Power Output: 24 VDC (optional: 110-230 VAC) • User-replaceable battery • Deep-cycle VRLA battery (available worldwide) • Rechargeable battery • Emergency ON/OFF button
Components Included	
	• Frame for solar panels • Special casing for Power Bank (IP-67) • Frangible legs for both power banks and solar panel's frame
Inverter Charger	
	• Victron MultiPlus 24 / 3000 / 70-16 • DC Voltage: 24 volts • Continuous output: 2 500 Watts AC • Battery charge current: 70 Amps DC

SE-150

SOLAR ENGINE COMPACT

TECHNICAL SPECIFICATIONS

General	
Solar Panel	• Solar Panel Size: 175 W • Adjustable and replaceable solar panel • Anti-glare coated solar panel
Power Bank	• Power Bank Capacity: 720 Wh (optional: 1440 Wh) • Power Output: 24 VDC (optional: 110-230 VAC) • User-replaceable battery • Deep-cycle VRLA battery (available worldwide) • Rechargeable battery • Emergency ON/OFF button
Components Included	
	• Frame for solar panel • Special casing for Power Bank (IP-67) • Frangible legs for both power banks and solar panel's fram
Inverter Charger	
	• Victron MultiPlus 24 / 3000 / 70-1 • DC Voltage: 24 volts • Continuous output: 2 500 Watts AC • Battery charge current: 70 Amps DC

SE-350

SOLAR ENGINE OPTIMA

TECHNICAL SPECIFICATIONS

General	
Solar Panel	• Solar Panel Size: 360 W • Adjustable and replaceable solar panel • Anti-glare coated solar panel
Power Bank	• Power Bank Capacity: 1320 Wh (optional: 2640 Wh) • Power Output: 24 VDC (optional: 110-230 VAC) • User-replaceable battery • Deep-cycle VRLA battery (available worldwide) • Rechargeable battery • Emergency ON/OFF button

Components Included
• Frame for solar panels
• Special casing for Power Bank (IP-67)
• Frangible legs for both power banks and solar panel's frame

Inverter Charger
• Victron MultiPlus 24 / 3000 / 70-16
• DC Voltage: 24 volts
• Continuous output: 2 500 Watts AC
• Battery charge current: 70 Amps DC

SE-700

SOLAR ENGINE MAX

TECHNICAL SPECIFICATIONS

General	
Solar Panel	• Solar Panel Size: 720 W • Adjustable and replaceable solar panel • Anti-glare coated solar panel
Power Bank	• Power Bank Capacity: 2640 Wh (optional: 5280 Wh) • Power Output: 230 VAC • Power Output: 24 VDC (optional: 110-230 VAC) • Deep-cycle VRLA battery (available worldwide) • Rechargeable battery • Emergency ON/OFF button

Components Included
• Frame for solar panel
• Special casing for Power Bank (IP-67)
• Frangible legs for both power banks and solar panel's fram

Inverter Charger
• Victron MultiPlus 24 / 3000 / 70-1
• DC Voltage: 24 volts
• Continuous output: 2 500 Watts AC
• Battery charge current: 70 Amps DC

BATTERY MONITORING

Available monitoring of battery capacity (optional)

AUTONOMY

Extended Power Bank provides long operating time

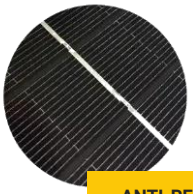
SOLAR AUTONOMY

Request Solar Feasibility Study for your project

SOLAR PANEL

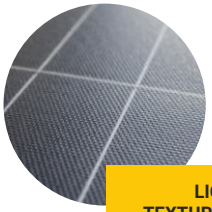
ANTI-REFLECTIVE MODULE

S4GA solar panel are an ideal solution for powering various applications in airports, including runway lights, guidance signs, LED PAPI, etc.
To ensure the safety of air traffic, this solar panel has been equipped with an anti-reflective coating that reduces the amount of reflected light, making it safe for use in airports.

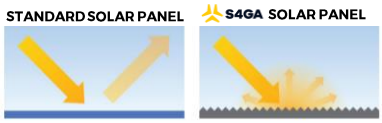


The anti-reflectve coating applied to S4GA solar panel is designed to reduce the amount of reflected light, thereby minimizing the risk of glare for pilots and air traffic controllers. This coating has been tested and certified to meet the regulatory requirements for airport installations, ensuring that it is safe for use in this environment.

ANTI-REFLECTUVE COATING (ARC)



Special light textured glass additionally decreases reflectivity of S4GA solar panels.



LIGHT TEXTURED GLASS

Types of Solar Panel

Type	Output in Watts
Standard	20
Mini	40
Compact	175
Optima	360
Max	720

PERFORMANCE

S4GA solar panels delivers high efficiency and reliable performance, providing an optimal balance between power output and size. The panel is capable of generating enough power to meet the requirements of various airport applications, while its compact size makes it easy to install in tight spaces.

QUALITY AND RELIABILITY

This solar panel has been manufactured using high-quality materials and advanced manufacturing techniques, ensuring that it is durable, reliable, and capable of providing consistent performance in demanding environments. The panel has been designed to withstand harsh weather conditions and extreme temperatures, making it an ideal solution for airport installations.

CONCLUSIONS

S4GA solar panels with anti-reflective coating in combination with textured glass is a safe and reliable solution for powering various applications in airports. With its high-quality construction, advanced anti-reflective coating, and reliable performance, S4GA solar panels are an excellent choice for airports that require high-quality and safe power solutions.