



Example specification text

Sierra Solaflex Plus off-grid solar luminaire with 16 LED light engine. Ø76mm direct post entry. Integrated 4-way adjustable 50W HPBC photovoltaic panel. 3000K colour temperature using a Diamond+ A1 optic. Die-cast aluminium body in RAL 7046 Mid Grey matt finish with a polyester powder coat and flat toughened glass glazing. IP66 and IK08 protection. 100,000hour (L90 B10) lifetime. 576Wh integral lithium iron phosphate (LiFePO4) battery with programmable MTPP controller and D4i driver. Bluetooth Zhaga photocell node and Bluetooth Zhaga PIR node. Class III.

Performance

Lumen output	6,850lm (max)
Power	42W (max)
Efficacy	163lm/W (max)
Light source	Performance LED
LED quantity	16
Colour temperature	2700K 3000K 4000K
Colour rendering index	70
Colour consistency	5 SDCM
Distribution	Diamond+ Optics A1 / A2 / A3 / A5 / A6 B1 / B2 / B3 C1 / C2 / C6
DarkSky approved	No
TM66 score	On request
Certification	UKCA, CE

Mechanical

Mounting options	Direct post Ø76mm / Ø60mm Side entry Ø60mm
Inclination	-15° to +15° (5° increments)
Housing	High pressure die-cast aluminium
Glazing	Toughened glass
Seals	Silicone
Colour	RAL 7046 Mid grey matt finish RAL 9005 Black matt finish
Paint type	Marine grade C4 coating
Wire tail	N/A
IP rating	IP66
IK rating	IK08
Weight	21.0kg
Windage	0.17m ² (panel closed) 0.60m ² (panel open)

Electrical

Driver	On/off Dimmable
Solar panel material	HPBC (Monocrystalline)
Solar panel type	4-way adjustable (0°- 40° tilt)
Solar panel power	50W (18V)
Solar panel efficiency	25%
Battery type	Lithium iron phosphate
Battery size	576Wh (12.8V 45AH)
Solar controller	Programmable MPPT
Electrical class	Class III
Operating temperature	-20°C to +40°C
Rated Lifetime	100,000 hrs (L90 B10)

Control & Connectivity

Sensor options	Zhaga photocell 35lux Zhaga PIR sensor Bluetooth Zhaga photocell node Bluetooth Zhaga PIR node
Socket options	4-pin Zhaga socket
Dimming options	Pre-programmed
CMS	Optional with DC node
DALI	N/A
Emergency	N/A