LuXLuminaire Lighting solutions
A MIR GROUP COMPANY

PRODUCT DATASHEET
LS2-144S-20 / 40-12
REV. 2026-11-12



SOLAR STREET LIGHTS · SOLAR PARK & GARDEN LIGHTS

Solar Park & Garden Light 20W · 3000 lm

Solar post-top luminaires for parks and gardens, with the panel integrated in the luminaire head.

POWER **20 W**	LUMINOUS FLUX **3000 lm**	EFFICACY **150 lm/W**	SOLAR PANEL **40 Wp mono**
BATTERY **12 Ah**	INGRESS **IP65**	IMPACT **IK08**	COLOUR TEMP. **6500 K**

Applications Parks & pathways

Product summary

Product Code	LS2-144S-20 / 40-12	**Luminaire Power**	20 W
Luminous Flux	3000 lm	**Solar Panel Power**	40 Wp monocrystalline PERC
LED Brands	3030 SMD LED	**Driver**	ENEC-certified LED drivers
Charge Controller	10 A MPPT	**Standards Compliance**	EN 60598-2-3

Production can be tailored to special demands.

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Technical specifications

SOLAR ENERGY SYSTEM SPECIFICATIONS

Solar Panel Power	40 Wp monocrystalline PERC
Solar Panel Life Span	25 years
System Voltage	12.8 V DC
Charge Controller	10 A MPPT
Battery Type	32700 LiFePO4
Battery Capacity	12 Ah, 153.6 Wh
Battery Life Span	3000 cycles with 80% discharge

MECHANICAL & DIMENSIONS

Housing	Aluminium
IP Rating	IP65
IK Rating	IK08
RAL Code	7016
Console Entry	76 mm
Operating Temperature	-30°C / +50°C
Luminaire Dimensions	600 × 600 × 575 mm
Luminaire Weight	5.0 kg
Packing Dimensions & Weight	610 × 610 × 590 mm / 5.5 kg
Top of The Pole Diameter	76 mm

ELECTRICAL SPECIFICATIONS

Luminaire Power	20 W
Efficacy (lm/W)	150 lm/W
Luminous Flux	3000 lm
Light Source	3030 LED
Driver Type	ENEC-certified LED driver
Motion Sensor	Yes / Microwave
Class	III

OPTICAL SPECIFICATIONS

Diffuser	PMMA optic
Colour Temperature (CCT)	6500 K
CRI	>70

OPTIONS

✓ Step Dim | ✓ RAL Code | ✓ Autonomous Time | ✓ Colour Temperature: 3000 K / 4000 K / 5000 K / 5700 K | ✓ Remote Control: Wi-Fi

Standards & certifications

TSE | CE | EAC | ENEC | EMC | IP65 | IK08 | Class III

Standards compliance: EN 60598-2-3

Full product page and quotation request: **https://solarstreetlighting.net/en/products/solar-street-lights/solar-park-garden/all-in-one-solar-park-and-garden-luminaire-20w-3000-lm/**