LuXLuminaire Lighting solutions
A MIR GROUP COMPANY

PRODUCT DATASHEET
LS-M1-96S-40 / 150-48
REV. 2026-11-12



SOLAR STREET LIGHTS · ALL-IN-TWO SOLAR STREET LIGHTS

All-in-Two Solar Street Light 40W · 6400 lm

Separate panel and luminaire for higher outputs and better panel orientation at high latitudes.

POWER **40 W**	LUMINOUS FLUX **6400 lm**	EFFICACY **160 lm/W**	SOLAR PANEL **150 Wp mono**
BATTERY **48 Ah**	INGRESS **IP66**	IMPACT **IK09**	COLOUR TEMP. **6500 K**

Applications Roads & highways · Rural & village roads · Off-grid & remote sites

Product summary

Product Code	LS-M1-96S-40 / 150-48	**Luminaire Power**	40 W
Luminous Flux	6400 lm	**Solar Panel Power**	150 Wp monocrystalline PERC
LED Brands	3030 SMD LED	**Driver**	ENEC-certified LED drivers
Charge Controller	10 A MPPT	**Standards Compliance**	EN 60598-2-3, LM-80, TM-21

Production can be tailored to special demands.

LuxLuminaire · Mir Group · info01@mirgrp.com · solarstreetlighting.net
Head office: Macun Mahallesi, Batı Bulvarı, ATB İş Merkezi No: 192, Yenimahalle, Ankara, Türkiye · +90 532 711 21 85
Uzbekistan Office: Sharof Rashidov Avenue, 72, 2, Yunusobod District, Tashkent 100128, Uzbekistan · +998 99 424 51 14

Technical specifications

SOLAR ENERGY SYSTEM SPECIFICATIONS

Solar Panel Power	150 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	48 Ah, 614.4 Wh
Battery Life Span	3000 cycles with 80% discharge

MECHANICAL & DIMENSIONS

Housing	Aluminium
IP Rating	IP66
IK Rating	IK09
RAL Code	9006
Console Entry	48 mm Max.
Operating Temperature	-30°C / +50°C
Energy and Luminaire Dimensions	1140 × 680 × 130 mm / 285 × 660 × 165 mm
Luminaire Weight	24.0 kg
Packing Dimensions & Weight	1150 × 690 × 150 mm / 26.0 kg

ELECTRICAL SPECIFICATIONS

Luminaire Power	40 W
Efficacy (lm/W)	160 lm/W
Luminous Flux	6400 lm
Light Source	3030 LED
Driver Type	ENEC-certified LED driver
Motion Sensor	Yes / Microwave
Class	III

OPTICAL SPECIFICATIONS

Light Distribution	Asymmetric
Diffuser	4 mm Tempered glass
Colour Temperature (CCT)	6500 K
CRI	>70

OPTIONS

✓ Step Dim | ✓ RAL Code | ✓ Autonomous Time | ✓ Colour Temperature: 3000 K / 4000 K / 5000 K / 5700 K | ✓ CRI: > 80 | ✓ Remote Control: Wi-Fi

Standards & certifications

TSE | CE | EAC | ENEC | EMC | IP66 | IK09 | Class III

Standards compliance: EN 60598-2-3, LM-80, TM-21

Full product page and quotation request: **https://solarstreetlighting.net/en/products/solar-street-lights/all-in-two/all-in-two-solar-road-and-street-luminaire-40w-6400-lm/**