LuXLuminaire Lighting solutions
A MIR GROUP COMPANY

PRODUCT DATASHEET
LS-MZ-216S-80 / 100-48
REV. 2026-11-12



SOLAR STREET LIGHTS · ALL-IN-ONE SOLAR STREET LIGHTS

All-in-One Solar Street Light 80W · 14400 lm

Panel, battery, controller and LED engine in one housing. Mount it on a pole and it works the same day.

POWER **80 W**	LUMINOUS FLUX **14400 lm**	EFFICACY **180 lm/W**	SOLAR PANEL **100 Wp mono**
BATTERY **48 Ah**	INGRESS **IP66**	IMPACT **IK09**	COLOUR TEMP. **6500 K**

Applications Rural & village roads · Parks & pathways · Off-grid & remote sites

Product summary

Product Code	LS-MZ-216S-80 / 100-48	**Luminaire Power**	80 W
Luminous Flux	14400 lm	**Solar Panel Power**	100 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.

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Technical specifications

SOLAR ENERGY SYSTEM SPECIFICATIONS

Solar Panel Power	100 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	76 mm
Operating Temperature	-30°C / +50°C
Luminaire Dimensions	365 × 1500 × 100 mm
Luminaire Weight	26.0 kg
Packing Dimensions & Weight	375 × 1550 × 110 mm / 28.5 kg

ELECTRICAL SPECIFICATIONS

Luminaire Power	80 W
Efficacy (lm/W)	180 lm/W
Luminous Flux	14400 lm
Light Source	3030 LED
Driver Type	ENEC-certified LED driver
Motion Sensor	Yes / Microwave
Class	III

OPTICAL SPECIFICATIONS

Light Distribution	Asymmetric
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 | ✓ 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-one/all-in-one-solar-road-and-street-luminaire-80w-14400-lm/**