

EnGo Slim 4

Solar Street Light

An ideal solution for:

- neighborhood
- business centers
- city centers
- streets



**Environmental
Sensors**



**Remote
Management System**



**Easy Installation
& Maintenance**



Smart Sensors



**High Quality
Lithium Battery**



**Powered By
The Sun**

EnGo Slim 4

Technical Data Sheet

SLIM 4 GENERAL SPECIFICATIONS

LED Lamp	20 W
	180 lm/W
Solar Power	160Wp (4×40Wp), Monocrystalline
Battery System	Lithium Ion Phosphate – LiFePO4 12 V, 52 Ah
Charge Controller	MPPT Controller - 12 V
Pole	Hot Dip Galvanized + Powder Coated 4 m / 13 ft
Total Weight	106 kg / 233.7 lbs
Environmental Sensors	Available upon request

SOLAR PANEL MAIN CHARACTERISTICS

Maximum Output Power (P_{mpp})	40 Wp
Power Tolerance	+/-5%
Solar Cell Efficiency	≥ 20%
Voltage at P_{mpp} (V_{mpp})	17.6 V
Current at P_{mpp} (I_{mpp})	2.27 A
Open Circuit Voltage (V_{oc})	20.8 V
Short Circuit Current (I_{sc})	2.45 A
Operating Temperature	-40 °C ↔ +85 °C / -40 °F ↔ 185 °F
Maximum System Voltage	700 V
Maximum Series Fuse Rating	10 A

SOLAR PANEL MECHANICAL CHARACTERISTICS

Solar Cell Type	Monocrystalline 156.75 × 156.75 mm / 6.17 × 6.17 in
Dimensions of Module	1335 × 170 × 4.5 mm / 52.6 × 6.7 × 0.2 in
Cables Specialized for PV use	2.5mm ² × 1 m
Weight	2.3 kg / 5.1 lbs
Environmental Resistances	800g steel ball fall down from 1m height 60m/s wind

SOLAR PANEL TEMPERATURE CHARACTERISTICS

Current Temperature Coefficient	0.05 % / °C
Voltage Temperature Coefficient	-0.35 % / °C
Power Temperature Coefficient	-0.45 % / °C

BATTERY MAIN CHARACTERISTICS

Type	LiFePO4
Rated Voltage	12.8 V
Rated Capacity	12 V 52 Ah
Internal Resistance	≤ 45 Ohm
Dimensions	936 mm 82 mm 42 mm 36.9 in 3.2 in 1.7 in
Weight	2.9 kg / 6.4 lbs
Shell Material	Poly Vinyl Chloride (PVC)
Charge Voltage	14.4 +/- 0.15 V
Charge Current	≤ 5 A
Operating Temperature	-15 °C ↔ +70 °C / 5 °F ↔ +158 °F
Passive Protection	Over-charge Protection Over-discharge Protection Temperature Protection Balanced Function

POLE CHARACTERISTICS

Height	4m/13ft
Pole Wall Thickness	approx. 4mm / 8 gauge*
Finishing Colors	White – RAL 9003 or Black – RAL 9005
Battery Storage	Inside Pole
Arm - Pole Angle	90° or 105°

CHARGER CONTROLLER MODEL CHARACTERISTICS

Model	VICTRON ENERGY SmartSolar MPPT 75/15
Battery Voltage (auto select)	12 V
Rated Charge Current	15 A
Nominal PV Power, 12 V	220 W
Max. PV Short Circuit Current	15 A
Max. PV Open Circuit Voltage	75 V
Peak Efficiency	98%
Self-Consumption - Load On/Off	12 V: 25 mA
Charge Voltage 'Absorption'	14.4 V (Adjustable)
Charge Voltage 'Float'	13.8V (Adjustable)
Operating Temperature	-30°C ↔ +60°C / -22°F ↔ +140°F
Safety Standards	EN/IEC 62109-1, UL 1741, CSA C22.2
Color	Blue (RAL 5012)
Protection Category	IP43 (electronic components), IP22 (connection area)
Weight	0.5 kg / 1.1 lbs
Dimensions	100 x 113 x 40 mm 3.9 x 4.5 x 1.6 in

LED LAMP CHARACTERISTICS

Rated Power	20 W
Operating Temperature	-40 °C ↔ +50 °C / -40 °F ↔ +122°F
Power Factor (PF)	>0.9
Protection	Class I (Class II Optional)
Rated Voltage	12 VDC
Lumen Output	180 lm/W
Correlated Color Temperature (CCT)	2200 K ↔ 4000 K
Ratings	IP 66 IK 10
Lifetime	> 100.000 hours – L70 @25°C (77 °F)
Body	Aluminum

PACKAGING DETAILS

Pole	one unit
Packaged Dimensions	375 x 300 x 4230 mm / 14.8 x 11.8 x 166.5 in
Packaged Weight	86 kg / 189.6 lbs
Arm	two units
Packaged Dimensions	330 x 300 x 1530 mm / 13 x 11.8 x 60.2 in
Packaged Weight	14 kg / 30.9 lbs

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SLIM 6 GENERAL SPECIFICATIONS

LED Lamp	30W 180 lm/W
Solar Power	240Wp (6×40Wp), Monocrystalline
Battery System	Lithium Ion Phosphate – LiFePO4 12V 52 Ah
Charge Controller	MPPT Controller - 12 V
Pole	Hot Dip Galvanized + Powder Coated 6 m / 20 ft
Total Weight	139 kg / 306.4 lbs
Environmental Sensors	Available upon request

SOLAR PANEL MAIN CHARACTERISTICS

Maximum Output Power (P_{mp})	40 Wp
Power Tolerance	+/-5%
Solar Cell Efficiency	≥ 20%
Voltage at P_{mp} (V_{mp})	17.6 V
Current at P_{mp} (I_{mp})	2.27 A
Open Circuit Voltage (V_{oc})	20.8 V
Short Circuit Current (I_{sc})	2.45 A
Operating Temperature	-40 °C ↔ +85 °C / -40 °F ↔ 185 °F
Maximum System Voltage	700 V
Maximum Series Fuse Rating	10 A

SOLAR PANEL MECHANICAL CHARACTERISTICS

Solar Cell Type	Monocrystalline 156.75 × 156.75 mm / 6.17 × 6.17 in
Dimensions of Module	1335 × 170 × 4.5 mm / 52.6 × 6.7 × 0.2 in
Cables Specialized for PV use	2.5mm ² × 1 m
Weight	2.3 kg / 5.1 lbs
Environmental Resistances	800g steel ball fall down from 1m height 60m/s wind

SOLAR PANEL TEMPERATURE CHARACTERISTICS

Current Temperature Coefficient	0.05 % / °C
Voltage Temperature Coefficient	-0.35 % / °C
Power Temperature Coefficient	-0.45 % / °C

PACKAGING DETAILS

Pole	one unit
Packaged Dimensions	375 x 300 x 5830 mm / 14.8 x 11.8 x 229.5 in
Packaged Weight	115.5 kg / 254.6 lbs
Arm	two units
Packaged Dimensions	330 x 300 x 1530 mm / 13 x 11.8 x 60.2 in
Packaged Weight	14 kg / 30.9 lbs

POLE CHARACTERISTICS

Height	6 m / 20 ft
Pole Wall Thickness	approx. 4mm / 8 gauge
Finishing Colors	White – RAL 9003 or Black – RAL 9005
Battery Storage	Inside Pole
Arm - Pole Angle	90° or 105°

CHARGER CONTROLLER MODEL CHARACTERISTICS

Model	VICTRON ENERGY SmartSolar MPPT 75/15
Battery Voltage (auto select)	12 V
Rated Charge Current	15 A
Nominal PV Power, 12 V	440 W
Max. PV Short Circuit Current	15 A
Max. PV Open Circuit Voltage	75 V
Peak Efficiency	98%
Self-Consumption - Load On/Off	24 V: 15 mA
Charge Voltage 'Absorption'	28.8 V (Adjustable)
Charge Voltage 'Float'	27.6 V (Adjustable)
Operating Temperature	-30°C ↔ +60°C / -22°F ↔ +140°F
Safety Standards	EN/IEC 62109-1, UL 1741, CSA C22.2
Color	Blue (RAL 5012)
Protection Category	IP43 (electronic components), IP22 (connection area)
Weight	0.5 kg / 1.1 lbs
Dimensions	100 x 113 x 40 mm 3.9 x 4.5 x 1.6 in

LED LAMP ELECTRICAL PARAMETERS

Rated Power	30 W
Operating Temperature	-40 °C ↔ +50 °C / -40 °F ↔ +122°F
Power Factor (PF)	>0.9
Protection	Class I (Class II Optional)
Rated Voltage	12 V
Lumen Output	180 lm/W
Correlated Color Temperature (CCT)	2200 K ↔ 4000 K
Ratings	IP 66 IK 10
Lifetime	> 100.000 hours – L70 @25°C (77 °F)
Body	Aluminum

LiFePO4 BATTERY MAIN CHARACTERISTICS

Type	LiFePO4
Rated Voltage	12.8 V
Rated Capacity	30.4 Ah
Internal Resistance	≤ 45 Ohm
Dimensions	936 mm 82 mm 42 mm 36.9 in 3.2 in 1.7 in
Weight	2.9 kg / 6.4 lbs
Shell Material	Poly Vinyl Chloride (PVC)
Charge Voltage	14.4 +/- 0.15 V
Charge Current	≤ 5 A
Operating Temperature	-15 °C ↔ +70 °C / 5 °F ↔ +158 °F
Passive Protection	Over-charge Protection Over-discharge Protection Temperature Protection Balanced Function

*Varies based on specific requirements

EnGo Slim 6 Double

Technical Data Sheet

SLIM 6 GENERAL SPECIFICATIONS

LED Lamp	2 x 20W or 2 x 30W 180 lm/W
Solar Power	280Wp (7x40Wp), Monocrystalline
Battery System	Lithium Ion Phosphate – LiFePO4 12V 104 Ah
Charge Controller	MPPT Controller - 12 V
Pole	Hot Dip Galvanized + Powder Coated 6 m / 20 ft
Total Weight	139 kg / 306.4 lbs
Environmental Sensors	Available upon request

SOLAR PANEL MAIN CHARACTERISTICS

Maximum Output Power (Pmpp)	40 Wp
Power Tolerance	+/-5%
Solar Cell Efficiency	≥ 20%
Voltage at Pmpp (Vmpp)	17.6 V
Current at Pmpp (Impp)	2.27 A
Open Circuit Voltage (Voc)	20.8 V
Short Circuit Current (Isc)	2.45 A
Operating Temperature	-40 °C ↔ +85 °C / -40 °F ↔ 185 °F
Maximum System Voltage	700 V
Maximum Series Fuse Rating	10 A

SOLAR PANEL MECHANICAL CHARACTERISTICS

Solar Cell Type	Monocrystalline 156.75 × 156.75 mm / 6.17 × 6.17 in
Dimensions of Module	1335 × 170 × 4.5 mm / 52.6 × 6.7 × 0.2 in
Cables Specialized for PV use	2.5mm2 × 1 m
Weight	2.3 kg / 5.1 lbs
Environmental Resistances	800g steel ball fall down from 1m height 60m/s wind

SOLAR PANEL TEMPERATURE CHARACTERISTICS

Current Temperature Coefficient	0.05 % / °C
Voltage Temperature Coefficient	-0.35 % / °C
Power Temperature Coefficient	-0.45 % / °C

PACKAGING DETAILS

Pole	one unit
Packaged Dimensions	375 x 300 x 5830 mm / 14.8 x 11.8 x 229.5 in
Packaged Weight	115.5 kg / 254.6 lbs
Arm	two units
Packaged Dimensions	330 x 300 x 1530 mm / 13 x 11.8 x 60.2 in
Packaged Weight	14 kg / 30.9 lbs

POLE CHARACTERISTICS

Height	6 m / 20 ft
Pole Wall Thickness	approx. 4mm / 8 gauge
Finishing Colors	White – RAL 9003 or Black – RAL 9005
Battery Storage	Inside Pole
Arm - Pole Angle	90° or 105°

CHARGER CONTROLLER MODEL CHARACTERISTICS

Model	VICTRON ENERGY SmartSolar MPPT 75/15
Battery Voltage (auto select)	12 V
Rated Charge Current	15 A
Nominal PV Power, 12 V	440 W
Max. PV Short Circuit Current	15 A
Max. PV Open Circuit Voltage	75 V
Peak Efficiency	98%
Self-Consumption - Load On/Off	24 V: 15 mA
Charge Voltage 'Absorption'	28.8 V (Adjustable)
Charge Voltage 'Float'	27.6 V (Adjustable)
Operating Temperature	-30°C ↔ +60°C / -22°F ↔ +140°F
Safety Standards	EN/IEC 62109-1, UL 1741, CSA C22.2
Color	Blue (RAL 5012)
Protection Category	IP43 (electronic components), IP22 (connection area)
Weight	0.5 kg / 1.1 lbs
Dimensions	100 x 113 x 40 mm 3.9 x 4.5 x 1.6 in

LED LAMP ELECTRICAL PARAMETERS

Rated Power	2 x 20 W or 2 x 30 W
Operating Temperature	-40 °C ↔ +50 °C / -40 °F ↔ +122°F
Power Factor (PF)	>0.9
Protection	Class I (Class II Optional)
Rated Voltage	12 V
Lumen Output	180 lm/W
Correlated Color Temperature (CCT)	2200 K ↔ 4000 K
Ratings	IP 66 IK 10
Lifetime	> 100.000 hours – L70 @25°C (77 °F)
Body	Aluminum

LiFePO4 BATTERY MAIN CHARACTERISTICS

Type	LiFePO4
Rated Voltage	12.8 V
Rated Capacity	30.4 Ah
Internal Resistance	≤ 45 Ohm
Dimensions	936 mm 82 mm 42 mm 36.9 in 3.2 in 1.7 in
Weight	2.9 kg / 6.4 lbs
Shell Material	Poly Vinyl Chloride (PVC)
Charge Voltage	14.4 +/- 0.15 V
Charge Current	≤ 5 A
Operating Temperature	-15 °C ↔ +70 °C / 5 °F ↔ +158 °F
Passive Protection	Over-charge Protection Over-discharge Protection Temperature Protection Balanced Function

*Varies based on specific requirements