Integrity LED · Solar LED Street Light (All-in-One)

Commercial solar area / street lighting · Distributed & supported by Integrity LED



ILED-SSL SERIES

Off-grid street & area lighting — no trenching, no wiring, no power bill.

All-in-one design with integrated mono solar panel, LiFePO4 battery, MPPT charging and PIR motion sensor. Adjustable 0–90° panel for maximum solar gain.

ILED-SSL-40	40W · 6,400 lm · 4000K / 6000K
ILED-SSL-80	80W · 13,800 lm · 4000K / 6000K

170 lm/W	140×70°	35h / 60h	IP65	3 Years
EFFICACY	BEAM ANGLE	KEEP / SENSOR	WATERPROOF	WARRANTY

FEATURES & ADVANTAGES

- **Modern all-in-one design** — panel, battery, controller, LEDs and sensor in one housing.
- **Super bright 170 lm/W** with professional 140° × 70° light distribution for a much bigger lighting area.
- **Optical lens** delivers uniform, comfortable, anti-glare output.
- **0–90° adjustable solar panel** for maximum solar charging flexibility.
- **Remote-control work modes** — set lighting time & brightness for diverse uses.
- **Grade-A mono solar panel** with laminated glass, 21%+ conversion for faster charging, 20+ year lifespan.
- **MPPT charging** — up to 25% higher charging efficiency than common controllers, improving capacity and run time in varied environments.
- **New top-quality LiFePO4 battery pack** — large capacity, 2,000 cycles, over-charge & over-discharge protection.
- **Aluminum housing** — strong and durable.
- **Dual-chip LEDs** for higher lighting efficiency.
- **IP65** waterproof & dust-proof · CE / RoHS.
- **Built-in PIR motion sensor** — 120° detection angle, <8 m range.

WORK MODES

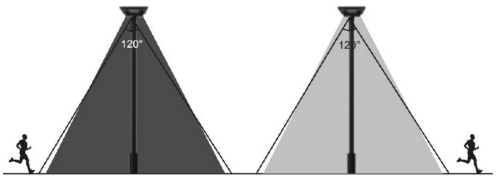
Keep Lighting Mode

Lights automatically at night at 60% brightness for 5 hours, then switches to Auto Sensor Mode.



Auto Sensor Mode

Lights automatically at night; full brightness when motion is detected within ≤8 m, dims to lower brightness after 20 seconds of no motion.



SPECIFICATIONS

Integrity LED SKU	ILED-SSL-40	ILED-SSL-80
Ordering SKU / CCT	ILED-SSL-40-4K (4000K) ILED-SSL-40-6K (6000K)	ILED-SSL-80-4K (4000K) ILED-SSL-80-6K (6000K)
Power	40W	80W
Lumens	6,400 lm	13,800 lm
LEDs	SMD2835 × 100 pcs	SMD2835 × 241 pcs
LiFePO4 Battery Pack	76.8Wh / 12.8V, 6Ah	153.6Wh / 12.8V, 12Ah
Mono Solar Panel	22W / 18V	42W / 17.5V
Dimensions (L×W×H)	507 × 287 × 229 mm	853 × 349 × 243.5 mm
Installation Height	4–6 m	4–6 m
Installation Spacing	10–15 m	15–20 m
Lighting Area	232 m²	582 m²
COMMON TO ALL MODELS		
Charging Time	7 hours of strong sunshine for full charge	
Lighting Time (full charge)	Keep Lighting Mode: 35 hours · Sensor Mode: 60 hours	
Efficacy / Charging	170 lm/W · MPPT solar charge control	
Beam Angle	140 × 70°, TPII polarized design	
Wind Resistance	Typhoon 16	
PIR Sensor	Detection angle 120° · Detection distance <8 m	
Adjustable Angle	0° – 90° adjustable	
IP Class	IP65 waterproof, dust-proof	
Working / Storage Temp.	-20°C to 60°C · Storage 0°C to 45°C	
Housing / Pole Fit	Aluminum · fits Ø60 mm pole	
Warranty	**3 years**	

MODE BUTTON & REMOTE

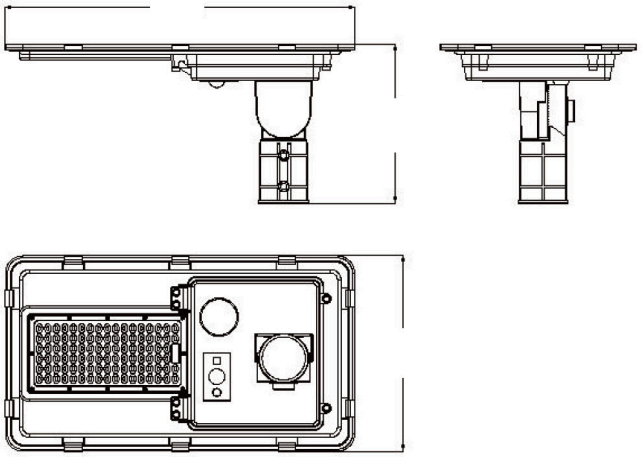


ON/OFF · Work-mode button on the lamp (or use the included remote):

1. 1st press — lamp turns on, **Keep Lighting Mode**
2. 2nd press — **Auto Sensor Mode**
3. 3rd press — lamp turns off

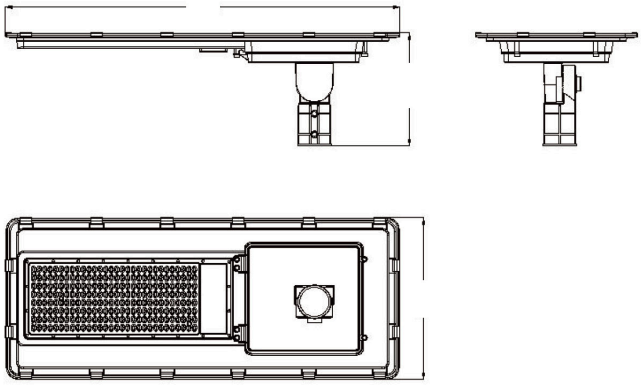
LAMP DIMENSIONS (MM)

ILED-SSL-40 · 40W — Side / end / top views



L **507** × W **287** × H **229** mm

ILED-SSL-80 · 80W — Side / end / top views



L **853** × W **349** × H **243.5** mm

Installation quick reference

- Pole fit: **Ø60 mm** · panel adjusts **0–90°**
- 40W: 4–6 m high · 10–15 m spacing · 232 m²
- 80W: 4–6 m high · 15–20 m spacing · 582 m²
- Full charge: 7 h strong sun · IP65 · -20°C to 60°C

Need a photometric layout or quote? Call Integrity LED.

WIDE APPLICATIONS





Streets & roads · Parking lots · Residential communities · Parks & pathways · Campuses · Commercial properties · Remote / off-grid sites