UP2
SOLAR LIGHTING SYSTEM
With AEL Autobahn ATBMic P102

Sol® by Sunna Design®

INDUSTRY-LEADING WARRANTY

The UP Series comes with a 10-Year municipal grade warranty on the complete solar system, battery included.

REDUCED INSTALLATION TIME

Thanks to its plug & play design, it only takes 30 minutes to install a light, pole included. Less time spent on installation means lower project cost.

SMART LIGHTING MANAGEMENT

The UP features proprietary adaptive lighting algorithms that automatically adjust the light flow based on the amount of energy available in the battery to ensure uninterrupted lighting all night, every night.
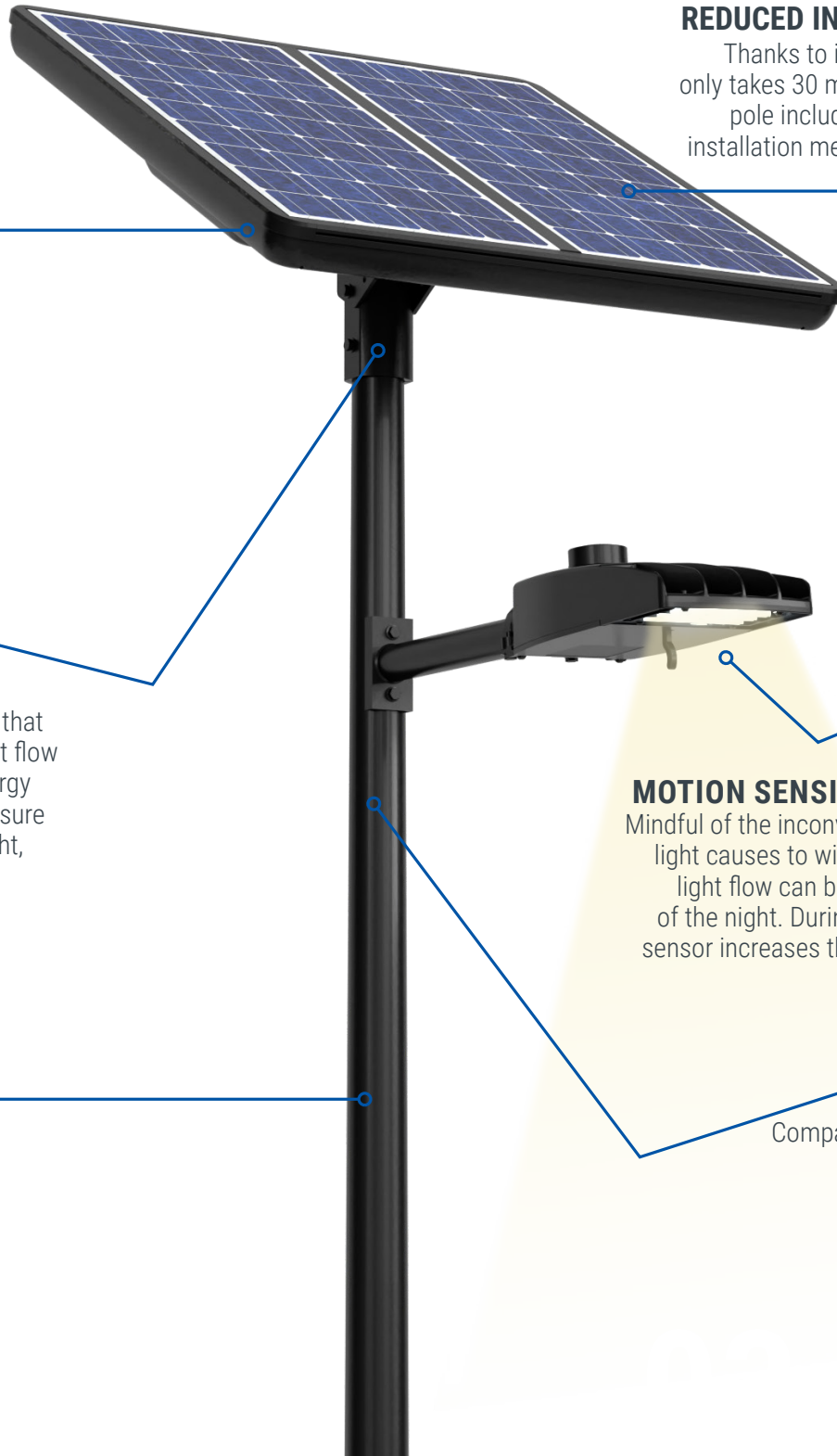
MOTION SENSING CAPABILITIES

Mindful of the inconvenience that too much light causes to wildlife and residents, the light flow can be reduced in the middle of the night. During this time, the motion sensor increases the level of light to allow users to travel safely.

RELIABLE

Designed for year round operation in extreme temperatures.

AEL American Electric Lighting®

Compatible with the Autobahn Series ATB Micro P102 Performance Package.

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UP ENERGY MANAGEMENT SYSTEM

- Bluetooth® wireless technology and setup app for simple and secure setup
- Tilted Solar Panels prevent dust accumulation. Can be tilted up to 50 degrees
- Aerospace Grade Ni-MH battery offering 12 year lifespan Flexible operating modes(split night with dimming)
- High Performance SunnaCore EMS provides not integrated charge controller and DC driver to ATBMic P102

- Integrated surge protection and noise reduction
- Marine grade wiring and connectors for simple and reliable assembly
- Desiged to handle extreme temperatures
- Rugged solid State design ensures long life and no maintenance
- 10-year limited warranty

LIGHTING	LED module	High efficiency LED light engine - Multichip Technology (IP 67)
	Luminous flux	3,200 to 6,000 lumens*
	Consumption	20 W to 40 W*
	Lighting efficiency	Up to 150 lm/W
	Color temperature options	2700K, 3000K, 4000K or 5000K
	Lifespan	> 50,000 hours
	Certificates	EN 13032-1; EN 13032-2; EN 13201; EN 60598-1; EN 62471
SOLAR PANEL	Technology	Photovoltaic module (Monocrystalline silicon)
	Power	80 Wp (2x40 Wp)
	Electrical characteristics (per panel)	VOC : 23,4 V / VMPP : 18,72 V / ISC : 2,34 A / IMPP : 2,14 A / 36 cells
	Dimensions (per panel)	30 x 14 inches (776 x 350 mm)
	Lifespan	25 years
	Tilt	10° / 25° / 40° / 50°
	Structure	Frameless
	Certificates	IEC 61215; IEC 61730 I and II
BATTERY	Battery technology	NiMH battery, maintenance free, extreme temperature resistance
	Voltage	24V
	Capacity	240 Wh
	Operating temperature range	-40°F to +158°F (-40°C to +70°C)
	Lifespan	12 years
	Certificates	EN 62133
ELECTRONICS	Energy Management	SunnaCore©
	Communication	Bluetooth
	Input voltage	24V
	Max. PV open circuit voltage	45V
	Max. charge/discharge current	5A
	Wiring	Marine-grade wiring used for all applications
	Electrical protection	Electronic fuse
	Lifespan	12 years
	Weather resistance	IP65 with sealed plugs
	Operating temperature range	-4°F to +158°F (-20°C to +70°C)
	Certificates	CE; EN61000; EN61547; EN55015; EN62493; EN 62479 EN300328; EN 301489-1
GENERAL	Material	ABS PMMA casing (100% recycled) and aluminum
	EPA	7.03 ft2 (0.65m2) [@ 50o tilt, includes fixture]
	Mounting Requirement	Solar engine: Top mounting 2.375inches(60 mm) OD x 4 inches (102mm) Long; Fixture: horizontal bracket Top mounting 2.375inches(60 mm) OD
	Weight (without pole or arm)	57lbs (25.7kg) [Engine and Fixture]
	Options	Motion sensor, Anti-theft screws, Anti birds spikes
	Smart Ligting options	Smart Lighting and Detection, Remote monitoring

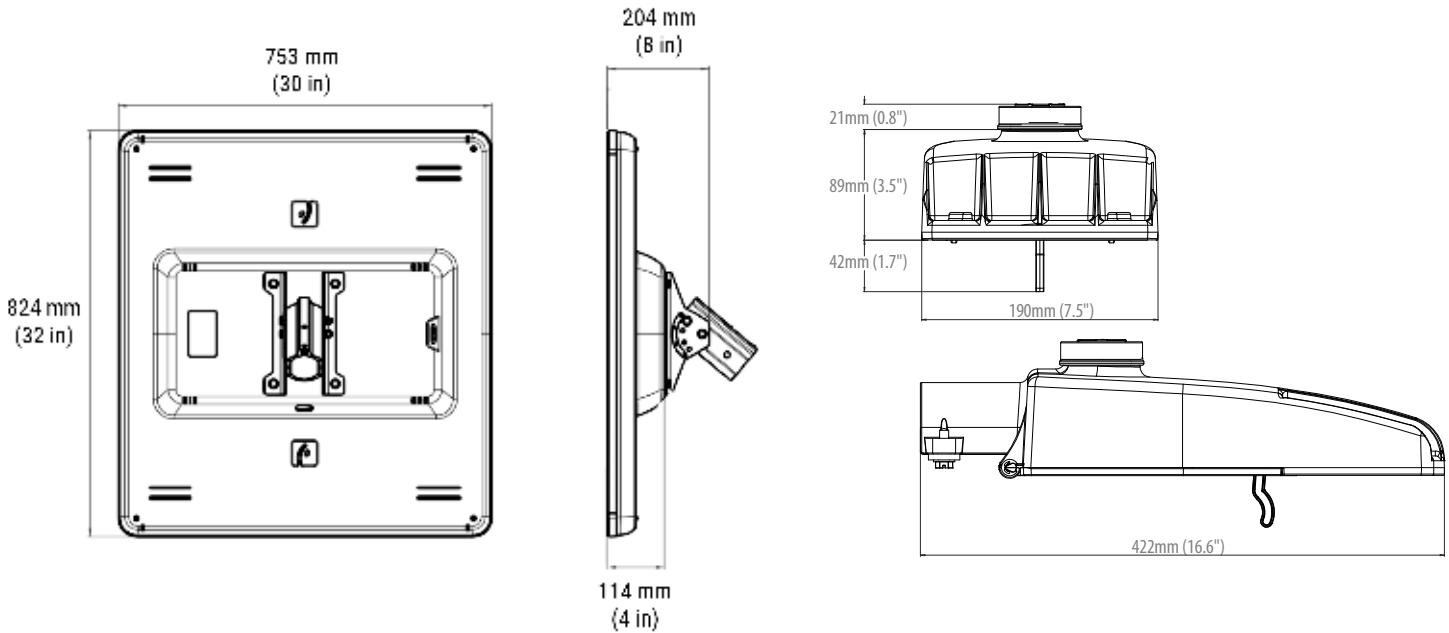*Output varies based on optic, color temperature and power settings.

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Dimensions

753 mm (30 in)
824 mm (32 in)
204 mm (B in)
114 mm (4 in)
21mm (0.8")
89mm (3.5")
42mm (1.7")
190mm (7.5")
422mm (16.6")

Ordering Information

PowerPack Code			
Model	**Lighting Profile**	**UP2 Solar Engine Color**	**ATBMic Color Pairing**
VT.SL4249	**00A** 100% (3h) / 40% / 100% (1h)	**090** White – RAL9010	White = WH
	00E 100% (2h) / 30% / 100% (1h)	**190** Bronze – RAL8019	Bronze = DDB
	00M 100% (5h) / 40% / 100% (1h)	**290** Black – RAL9005	Black = BK
	00N 100% (6h) / Off		

The table shows the sustainable profile option a UP can provide in a given city for each Performance package.

CITY	San Francisco	Los Angeles	Phoenix	Alburquerque	Dallas	Denver	Atlanta	Indianapolis	Miami	Philadelphia
P102	E, N	A, M, N	A, M, N	A, M, N	E, N	E, N	E, N	E,N	A, M, N	E, N