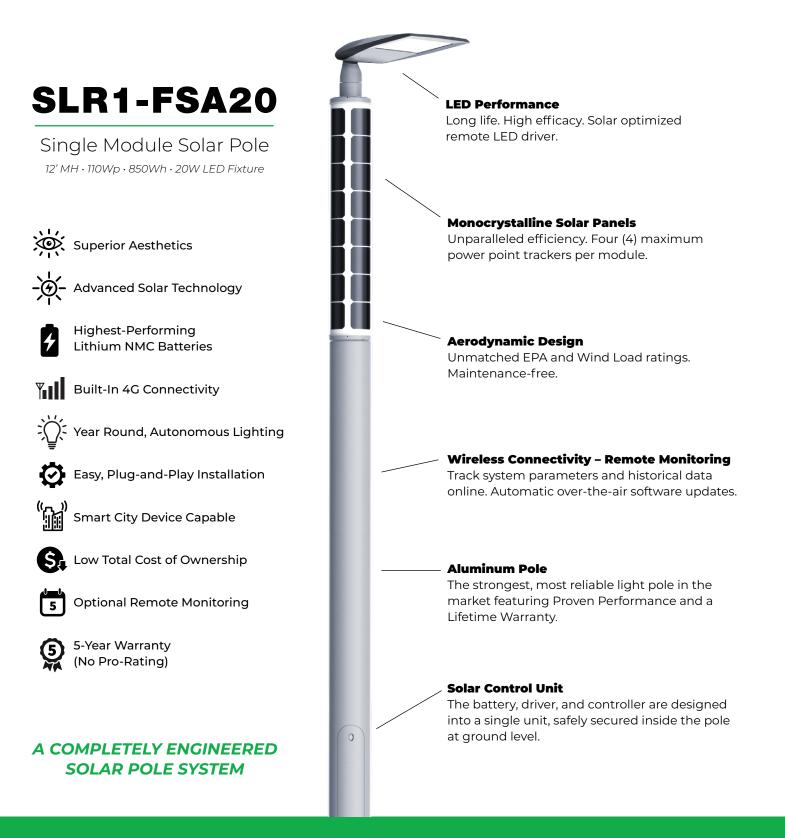


# Hapco Solar Pole solar today. Brighter tomorrow.<sup>™</sup>



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**CUSTOMER NAME:** 

LOCATION:

PROJECT: Notes:

# SLR1-FSA20

Single Module Solar Pole 12' MH · 110Wp · 850Wh · 20W LED Fixture



## **Pole Specification**

Material: 6063 Aluminum Alloy, Heat Treated After Weld Mounting Height: 12' Shaft/Top Dia.: 8"/4.5" Wall Thickness: .156" Access Door: Flush, Locking Handhole with Key Anchorage Options: Anchorage Base or Direct Buried Fixture Mounting: Tenon Mount

### **Solar Module Specification**

Technology: Monocrystalline Silicon Solar Cells Cell Efficiency: >24% Module Dimensions: 7.875" Dia. x 43.312" Tall Service Life: >25 Years Backsheet Color Options: White and Black Number of Modules: 1 Total Power: ~110 Wp Max. Power Point Tracking Channels: 4 / Module Weight: ~15.5 lbs. / Module Material: Borosilicate Glass — IK-07 Impact Rating

### **Battery Specifications**

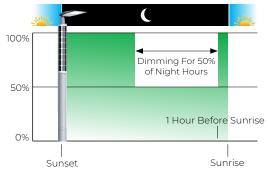
Technology: Lithium NMC Capacity: 850 Wh Service Life: >10 Years Location: Inside Pole Shaft Opposite Access Door Charge Efficiency: 99.5% Temperature Range: -4°F to 140°F

#### **Control Electronics Specifications**

Mobile Comm.: GSM/LTE-M Encryption: TLS 1.2 GNSS: GPS, BeiDou, GALILEO, FLONASS, QZSS Cable Update: USB Programmable Remote Update: Yes Remote Monitoring: Yes Time and Date: Astronomical Clock Service Life: >10 Years

## Dimming

Dynamic Dimming: Algorithmically Optimized Light Output Default (D1): 100%/50%/100%



**Custom:** Fully Customizable Profiles Can Be Specified To Meet Building Efficiency Codes

### Fixture

Style: FSA20 Wattage: 20W LED Quantity: 36 Dimensions: 24.75" L x 13.06" W x 11.25" H Material: High Impact Diecast Aluminum (IK09) CCT: 4000K Finish: Black or Gray

#### Warranty

Warranties: All Warranties Are 100% (Not Pro-Rated) Battery: 5 Years Solar Components: 5 Years Fixture: 5 Years Pole: Lifetime Warranty (Excluding Finish)

#### Options

Hybrid: (HYB) Grid Powered Battery Backup Motion Sensor: (MOT) Occupancy Awareness Remote Monitoring: (M05) 5 Years (M10) 10 Years

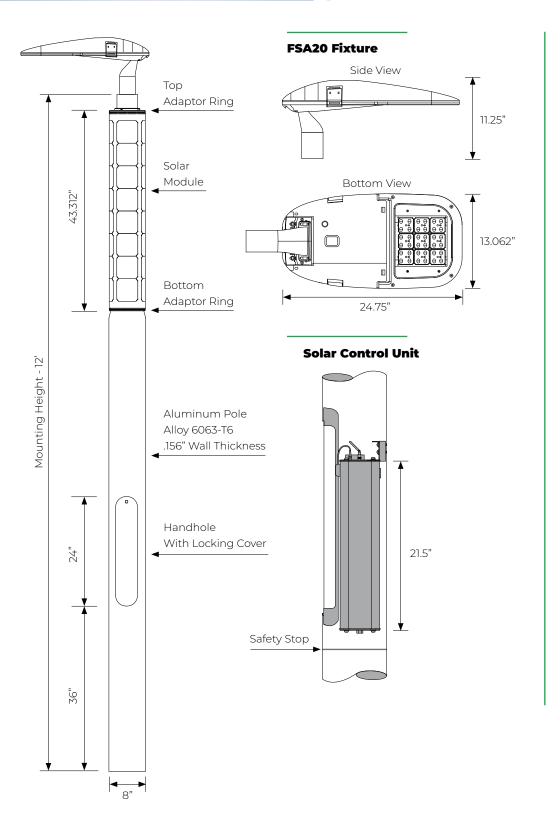
SLR1 0850 - 12 - C FSA20 - 4K												
HAPCO SOLAR POLE	Module Color	BATTERY	Mounting Height	WALL THICKNESS	ANCHORAGE	POLE FINISH	Fixture	CCT	DISTRIBUTION	Dimming Schedule	Fixture Finish	Options
SLR1 = Single Module	<b>B</b> = Black <b>W</b> = White	<b>0850</b> = 0850WH	<b>12</b> = 12'	<b>C</b> = 0.156''	4 = 4-Bolt Base E = Direct Buried	<b>01</b> = Satin <b>BA</b> = Black Powder Coat	FSA20	<b>4K</b> = 4000K	1 1		<b>GR</b> = Gray	HYB = Hybrid Grid/Solar MOT = Motion Sensor MO5 = 5 Year Monitoring M10 = 10 Year Monitoring *Add all that apply.Ex. HYB-MOT



# SLR1-FSA20

# Single Module Solar Pole

12' MH · 110Wp · 850Wh · 20W LED Fixture



4-Bolt Base Bolt Circle 11" - 12" 11.25"

**Anchorage Options** 

4-Bolt Cast Aluminum Base Flange of Alloy 356-T6 with Aluminum Bolt Covers (Alloy 356-F), Stainless Steel Hex Head Attaching Screws, and Four (4) 1" x 36" x 4" Steel Anchor Bolts Conforming to AASHTO M314-90.

Direct Buried

Direct Buried Pole bottom section will be partially flattened into an anti-rotational, oval cross section.



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# **FSA20** 20W LED Luminaire

# HIGH EFFICIENCY. SUPERIOR PERFORMANCE. LONG LIFE.

Hapco's FSA20 features a streamlined, modern style with a sleek and aerodynamic form factor specifically designed as a component of the Hapco Solar Pole. Its performance and aesthetics are optimized for solar powered operation. A remote DC driver as part of the Hand Hole Power Pack helps to reduce operating temperature and extend operating life while improving efficiency. Multiple lens options provide the light distribution flexibility needed for a plethora of pedestrian scale applications. Built-in lighting control helps meet code requirements and solar performance.

- Modern styling blends aesthetically with the Hapco Solar Pole, making it an ideal choice for a myriad of project applications.
- Solar optimized performance.
- Modular optical lens designs.

CE

- Clearly labeled plug and play cables for ease of installation.
- Temperature management for extended life.
- Integrated wireless controls with dynamic dimming.

RoHS



**Applications:** 

Streetscapes Walkways Pathways Parks & Rec Residential Streets Commercial Centers Campuses

**IP66** 

**IK09** 



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# **FSA20** 20W LED Luminaire

# Specifications

EPA: 1.9 ft<sup>2</sup> Dimensions: 24.75" L x 13.06" W x 11.25" H Weight: 20 lbs Material: High Impact Diecast Aluminum (IK09) Mounting: Fits Standard 2-3/8" Diameter OD Tenons

## Electrical

LED Quantity: 36 Power: 20W Max THD: 20% Power Factor: 0.90 RoHS: Compliant

# **Control Options**

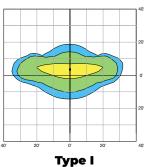
Lighting Scheme: Automatic Adaption to Sunrise/Sunset Standard Dimming: 100%/50%/100% (Sunset 100% - Dimming for 50% of Night Hours - 1 Hour Prior to Sunset 100%) Custom Dimming: Match Any Project Specification Motion Sensor: Optional

# **Light Module**

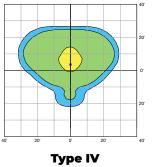
CCT: 4000K CRI: >70 Operating Temperature: -30°F - 122°F LED Lifetime: >70,000 Hours Protection Grade: IP66

# Warranty

Warranty: 5-Year Limited Warranty

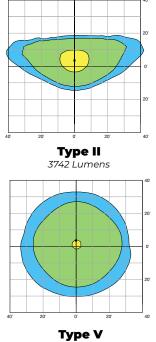


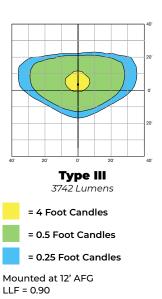
3742 Lumens



3470 Lumens







3759 Lumens

# SOLAR TODAY. BRIGHTER TOMORROW.<sup>TM</sup>









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