

DESIGN SERIES DATASHEET



Design Series, Off-Grid w/ LFP Batteries			
General			
System Autonomy:	9+ days depending on location		
Energy Saving Modes:	Yes: Automatic. Control board determines triggering based on remaining charge in battery system.		
Motion Sensors:	Motion sensors and dimming for added battery management		
Warranty:	10 year full system warranty		
EPA:	2.30 Square Feet with Inovus Solar® 2880 LED Luminaire and 4' Mast Arm		
Wind Loading:	170 mph*		
Safety Certification:	Solar Light Pole is CSA certified		
Pole	15' Pole	25' Pole	30' Pole
Total Dimension:	15' H x 10" diameter	25' H x dual diameter	30' H x dual diameter
Base Dimensions:	5'10" H x 10" diameter	5' H x 10" diameter	5' H x 10" diameter
Body Dimensions:	9'2" H x 10" diameter	20' H x 7" diameter	25' H x 7" diameter
Material:	T6 Powder Coated Spun Aluminum Pole	T6 Powder Coated Spun Aluminum Pole	T6 Powder Coated Spun Aluminum Pole
Mounting Options:	Base mount or direct burial option	Base mount or direct burial option	Base mount or direct burial option
Features:	Secure service access panel	Secure service access panel	Secure service access panel
Solar Collector	15' Pole	25' Pole	30' Pole
Solar Collector Dimensions:	8.4'H x 30"W	18'H x 15.5" W	18'H x 15.5" W
Orientation:	Sun-facing, wrapped 340° around pole body	Sun-facing, wrapped 225° around pole body	Sun-facing, wrapped 225° around pole body
Nameplate Power:	Pmax 123 Watts	Pmax 144 Watts	Pmax 144 Watts
Features:	Shade Tolerant, damage tolerant, contaminant resistant	Shade Tolerant, damage tolerant, contaminant resistant	Shade Tolerant, damage tolerant, contaminant resistant
Pole Attachment:	Adhesive backed solar collector with supporting aluminum rivets	Adhesive bonded solar collector with supporting aluminum rivets	Adhesive bonded solar collector with supporting aluminum rivets
Life:	80% Power at 25 years life	80% Power at 25 years life	80% Power at 25 years life
Luminaire	2880 LED Luminaire		
Luminaire Input Voltage:	24 V		
Power Consumption:	35W		
Lumens:	3120 lm		
Suggested Replacement For:	70W - 100W HID Lighting		
CRI:	>65		
Luminaire Efficacy:	>73 lm/W		
Color Temperature:	3950 K - 4500 K		
Lighting Type:	Solid State, LED		
Mounting Arm:	4 Feet or 18 inch options		
IES Lighting Type:	Type I, II, III and V available		
Life:	>60,000 hours / 13+ years		
Features:	Polycarbonate lens, IP66 rated		
Operating Temperature Range:	-40°F to +122°F		
Luminaire Dimming Signal Type:	PWM		
Lighting Standards:	Certified photometry per IES LM-79 & LM-80, Full Cutoff, Dark Sky Friendly**		
Safety Certification:	UL Listed		
Energy Profiles:	Energy profile options depend on location		
Battery Charging Controller			
Charging Technology:	Maximum Power Point Tracking, 3 Stage		
Peak Efficiency:	0.97		
Self Consumption:	~35 mA		
Data Logging:	Yes. 30 days		
Electronic Protection:	Yes. Multiple		
Supported Temp Range:	Charge: -40F (-40C) to 194F (90C)		
Batteries			
Voltage:	24V		
Capacity:	2160 Wh		
Dimensions:	6" x 6" x 20" (2 packs)		
Material:	Lithium Iron Phosphate (LFP)		
Features:	Contained in polypropylene enclosures for added protection		
Expected Life:	12-15 Years		
Operating Temperature Range:	32°F (0°C) to +158°F (70°C)		
Protection from Elements and Intrusion			
System:	Solar Light Pole is Wet Listed per CSA Certification		
Wiring:	Marine-grade wiring used for all applications to resist degradation		
Electrical Connections:	Connections coated to inhibit corrosion in hostile environments		
Control Board:	Conformal coating used to protect all components on control board from water damage		
1. System performance is highly dependent on location and weather conditions. 2. Life of LEDs dependent on usage model. 3. The Charge Controller will operate up to 90°C. Above 90°C, temperature protection will shut the charge controller off until the temperature drops back down to 70°C, at which * All wind load ratings are calculated per AASHTO 2001 specifications. Actual wind load rating will depend on luminaire and arm selections. 170 mph rating is valid for ** IDA approved Dark Sky Friendly versions of Inovus Solar® luminaires are available. Contact Inovus for details.			



DESIGN SERIES CUT SHEET

Please select the Pole Version (15', 25' or 30') desired and fill in the appropriate part number. X's represent options to be filled out internally by Inovus.

PV: _____ :24L:X:1:A:X

Design Off-Grid

Product name example (PV:01:24L:X:1:A:X:X)

Product	:	Pole Version	:	Battery Option	:	Control & Monitoring	:	Head Count	:	Luminaire Type	:
PV	Off-grid pole	01	Black 25' Ht, 10-7" Dia., Aluminum pole	24L	AGM Batteries (24 Volt)	X	Local control	1	Single head	A	Inovus Luminaire
		04	Black 15' Ht, 10" Dia., Aluminum pole								
		05	Black, 30' Ht, 10-7" Dia., Aluminum pole								

LUMINAIRE CUT SHEET

Please select the IES lighting distribution type desired and fill in the appropriate part number.

28AD1 _____ NBKX

Inovus Off-Grid LED Luminaires

Part number example (A28D11NBKX)

Inovus	Model	Current	Voltage	Distribution Type	Color Temp	Luminaire Finish	Options						
A	Inovus LED Fixture	28	2880	D DC	1 24 Volt	1	IES Type I	N	4100K	BK	Black	X	No options
						2	IES Type II						
						3	IES Type III						
						5	IES Type V						



STRAIGHT ARM CUT SHEET

If you would like an 18” straight arm, please use the part number below. X’s represent options to be filled out internally by Inovus.

SA:18:S:BK:X

Straight Arms

Part number example (SA:18:S:BK:X)

Arm Type	:	Length	:	Heads	:	Color	:
SA	Straight Arm	18	18 inches	S	Single	BK	Black

MAST ARM CUT SHEET

If you would like a 4’ mast arm, please use the part number below. X’s represent options to be filled out internally by Inovus.

MA:04:S:12:BK:X

Mast Arms

Part number example (MA:04:S:12:BK:X)

Arm Type	:	Length	:	Heads	:	Rise	:	Color	:
MA	Mast Arm	04	4 foot	S	Single	12	12 inch	BK	Black