



ELEMENT PLUS DATASHEET

Element Plus, Off-Grid w/ LFP Batteries			
General			
System Autonomy:	9+ days, depends 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		
EPA:	@ 20° Panel Tilt = 0.44m ²		
Warranty:	10 year full system warranty		
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' H x 10" diameter	5' H x 11" diameter	5' H x 11" diameter
Body Dimensions:	10' 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
Wind Loading:	150 mph*	150 mph*	120 mph*
Solar Collector			
Solar Collector Dimensions:	1638 x 982 x 40 mm (64.5 x 38.7 x 1.57 in)		
Orientation:	Sun-facing, tilt varies per location, 5°-45° of tilt possible in 5° increments		
Nameplate Power:	Pmax 240 Watts		
Cell Type:	Poly-crystalline		
Life:	80% Power at 25 years life		
Certifications:	UL 1703, IEC 61215 and 61730, CEC Listed, CQC, JET, CE, MCS, Kemco		
Luminaire			
Inovus 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		
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		
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			
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 point it will automatically turn back on. * All wind load ratings are calculated per AASHTO 2001 specifications. Wind load rating may vary based on solar panel tilt and pole height. Contact Inovus for project. ** Dark Sky Friendly versions of this luminaire are available. Please contact Inovus for details			



ELEMENT PLUS CUT SHEET

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

FK: _____:24L:01:X:_____ :A:X:X

Element Series Off-Grid

Product name example (FK:06:24L:01:X:1:A:X:X)

Product	:	Pole version	:	Battery Option	:	Panel Options	:	Control & Monitoring	:	Head Count	:	Luminaire Type	:
FK	Element Series Off-Grid	04	Black, 15' Ht, 10" Dia., Aluminum pole	24L	LFP Batteries (24 Volt)	01	240 W Flat Panel	X	Local Control	1	Single Head	A	Inovus Luminaire
		05	Black, 30' Ht, 10-7" Dia., Aluminum pole							2	Dual Head		
		06	Black, 25' 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 select the Head Count (single or dual) desired and fill in the appropriate part numbers. X’s represent options to be filled out internally by Inovus.

SA:18:____: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
				D	Dual		

MAST ARM CUT SHEET

If you would like a 4’ mast arm, please select the Head Count (single or dual) desired and fill in the appropriate part numbers. X’s represent options to be filled out internally by Inovus.

MA:04:____: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
				D	Dual				