

JVTC-SOL SERIES SOLAR LED BATTEN TRI-PROOF LIGHT



PRODUCT DESCRIPTION

The Jademar Solar **JVTC-SOL** Tri-proof light is adapted from our most successful in two LED street lights built on the same platform. It is a good answer to vast solar lighting applications in urban and rural living. Lithium batteries and high charging efficiency solar controllers are built inside of the light. Ultra-high brightness LED is used, it reaches high lumen output up to 130 lm/W. IP67 weatherproof lighting fixture with the PC fixture can be perfectly used for outdoor lightings, like a garage, warehouse, caravan, carport, refugee tents, camping tent, caves, mines, etc.

The easy MC4 plug-in setup makes the light extremely easy for installation and portability. Distance from solar panel to light is up to 30 meters, which makes installation very flexible and built with high-quality components. JVTC-SOL Tri-proof light can meet project requirements as well in any challenging environment. JVTC-SOL Tri-proof light is able from 12W to 36W.

FEATURES

Efficient Control System: MPPT controller is adapted to all of solar led batten light, charging faster by 30% than PWM controller. It ensures the battery is full charged each day and every night without black even if the sunshine intensity is not stable all year round.

Big Battery Capacity Backup: The compact solar light system with a lithium battery inside. More than 4 days autonomy in energy-saving mode or 12 hrs working in constant lighting with 100% power. Never worry about being out of power anymore.

Ultra Brightness Output: This light is designed for commercial project use. It reaches 150 lm per Watt practically. 12W is good enough for a 20 m² room or area. It uses ultra-high brightness led chip SMD2835, which creates a smooth lighting performance and uniform distribution.

APPLICATIONS

- Carports
- Bus shelters
- Warehouses
- Temporary shelters
- Outdoor kiosks
- Street kiosks
- Camping tents
- Boats
- Remote locations

PERFORMANCE SUMMARY

Input Power	12W / 18W / 24W / 36W / 48W
Efficacy	115 lm/W on average
CCT Options	3000K / 4000K / 6000K
Construction	Aluminum Housing and Polycarbonate Lens
Input Voltage	18VDC
Ingress Protection	IP67 and IK10 Impact Resistant
Lifetime Based on Tm21	L70 @ 289,000 Hrs.
Warranty	3 years

Unused solar fixtures must have their battery recharged every 3 months or damage can occur to the battery

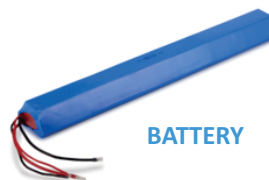
CERTIFICATIONS & COMPLIANCES



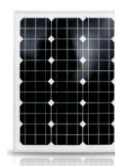
LIGHT UNIT



SOLAR CONTROLLER



BATTERY



SOLAR PANEL



SPECIFICATION SUBMITTAL DETAIL

Project Name/Type:		Date:
Catalog/Part #:		

JVTC-SOL SERIES SOLAR LED BATTEN TRI-PROOF LIGHT

Ordering Information / Example: **JVTC-SOL-12W-18V-40K-120D-MMS-WH**

Product Series	Wattage	Input Voltage	CCT	Light Distribution	CRI	Controls & Dimming	Housing Color
JVTC-SOL	12W 18W 24W 36W 48W	18V (18VDC)	30K (3000K) 40K (4000K) 60K (6000K)	120D (120-Degree)	Blank (80 CRI) Standard	MMS (Microwave Motion Sensor) Standard	WH (White Finish) Standard

LUMEN PERFORMANCE AND ELECTRICAL DATA

LIGHTING	Model Number	JVTC-SOL-12W	JVTC-SOL-18W	JVTC-SOL-24W	JVTC-SOL-36W	JVTC-SOL-48W
	Nominal Wattage	12W	18W	24W	36W	48W
	Lumen Output (lm)	1500	2000	2800	4000	5200
	Efficacy (lm/W)	125	111	117	111	108
	CCT	3000K / 4000K / 6000K				
	Input voltage	18VDC				
	CRI	>80				
	Light Distribution	120 degree				
	Max Dimensions	3.6" x 3.3" x 23.6"	3.6" x 3.3" x 23.6"	3.6" x 3.3" x 35.4"	3.6" x 3.3" x 35.4"	3.6" x 3.3" x 47.2"
Solar Controller	Controller Brand	SRNE				
	Output Power	12V/40W Max				
	Charging Current	10A Max				
	Output Current	1.89A Max				
	Sensor Options	Microwave Motion Sensor with Programmable Remote Optional				
	Protections	over-charge/over-discharge/over-voltage				
	Charging mode	PWM				
Solar Panel	Panel Type	Sunpower, Monocrystalline Flat/Semi-Flexible Panel				
	Max Dimension	26.4" x 16.5" x 1.0" 17.3" x 21.3" x 0.1"	27.6" x 21.1" x 1.2" 22.0" x 21.3" x 0.1"	26.4" x 23.2" x 1.0" 24.6" x 21.3" x 0.1"	34.6" x 26.4" x 1.2" 32.3" x 21.3" x 0.1"	40.9" x 26.4" x 1.2" 41.7" x 21.3" x 0.1"
	Max power	40W	50W	60W	80W	100W
	Max voltage	18VDC/20.5V	18VDC	18VDC/20.5V	18VDC/20.5VDC	18VDC
	Max. working current	2.25A/1.95A	2.78A	3.35A/2.92A	4.4A/3.9A	5.5A
	Max. system voltage	1000V				
	Cable section	2.5mm ²				
	Connection	Male & Female MC4 plugs				
Battery	Battery Type	Lithium Battery				
	Energy	144WH	216WH	288WH	396WH	528WH
	Nominal Voltage	12V				
	Rated Capacity	12AH	18AH	24AH	33AH	44AH
	Charge Voltage	12.6V				
	Standard Discharge Current	2.64A	3.52A	5.28A	7.92A	10.56A
	Discharge Cut-off Voltage	9.0V				
	Cells Qty	18Pcs	27Pcs	36Pcs	45Pcs	66Pcs
	Lifetime	1000 Cycles (>80% capacity)				

