

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 lumens output up to 130lm/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 150lm per watt practically. 12W is good enough for a 20 sqm 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
Nominal Efficacy	125 lm/W
CCT Options	3000K / 4000K / 5000K
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	1 year

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

CERTIFICATIONS & COMPLIANCES



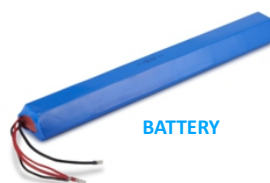
COMPONENTS



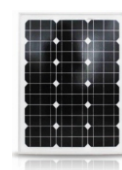
LIGHT UNIT



SOLAR CONTROLLER



BATTERY



SOLAR PANEL



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Information contained herein is subject to change without notice.
Values are nominal.
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SPECIFICATION SUBMITTAL DETAIL

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

JVTC-SOL SERIES SOLAR LED BATTEN TRI-PROOF LIGHT

Ordering Information / Example: **JVTC-SOL-14-12W-18V-40K-120D-80-MMS-WH**

JVTC-SOL	-		-		-	18V	-		-		-		-		-		-	
Product Series		Size		Wattage		Input Voltage		CCT		Light Distribution		CRI		Control Options		Housing Color		
JVTC-SOL		14 14"		12W 12W		18V 18VDC		30K 3000K		120D 120-Degree		Blank 80		MMS Microwave Motion Sensor		WH White Finish		
		24 24"		18W 18W				40K 4000K										
		35 35"		24W 24W				50K 5000K										

FIELD INSTALLED OPTIONS

JVTC-PANEL-30W	30W Solar Panel - Charge time 4 hrs.
JVTC-PANEL-60W	60W Solar Panel - Charge time 4 hrs.
JVTC-PANEL-80W	80W Solar Panel - Charge time 4 hrs.
JVTC-BS	Bracket stand for solar panel
JVTC-RC	Remote control for programming



JVTC-BS
Bracket Stand



JVTC-RC
Remote Control

LUMEN PERFORMANCE AND ELECTRICAL DATA

	Model Number	JVTC-SOL-14-12W	JVTC-SOL-24-18W	JVTC-SOL-35-24W
LIGHTING	Nominal Wattage	12W	18W	24W
	Lumen Output (lm)	1500	2000	2800
	Efficacy (lm/W)	125	111	117
	CCT	3000K / 4000K / 5000K		
	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"
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"
	Max power	40W	50W	60W
	Max voltage	18VDC/20.5V	18VDC	18VDC/20.5V
	Max. working current	2.25A/1.95A	2.78A	3.35A/2.92A
	Max. system voltage	1000V		
	Cable section	2.5mm2		
	Connection	Male & Female MC4 plugs		
	Battery Type	Lithium Battery		
Battery	Energy	144WH	216WH	288WH
	Nominal Voltage	12V		
	Rated Capacity	12AH	18AH	24AH
	Charge Voltage	12.6V		
	Standard Discharge Current	2.64A	3.52A	5.28A
	Discharge Cut-off Voltage	9.0V		
	Cells Qty	18Pcs	27Pcs	36Pcs
	Lifetime	1000 Cycles (>80% capacity)		

