



### INNOVATION

Complete engineering, design and development capabilities.



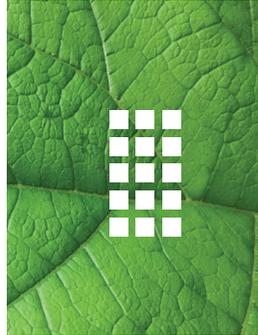
### MANUFACTURING

Manufactured using Bergstrom's World class manufacturing systems and processes.



### QUALITY

Designed, engineered and manufactured in the U.S. and China facilities.



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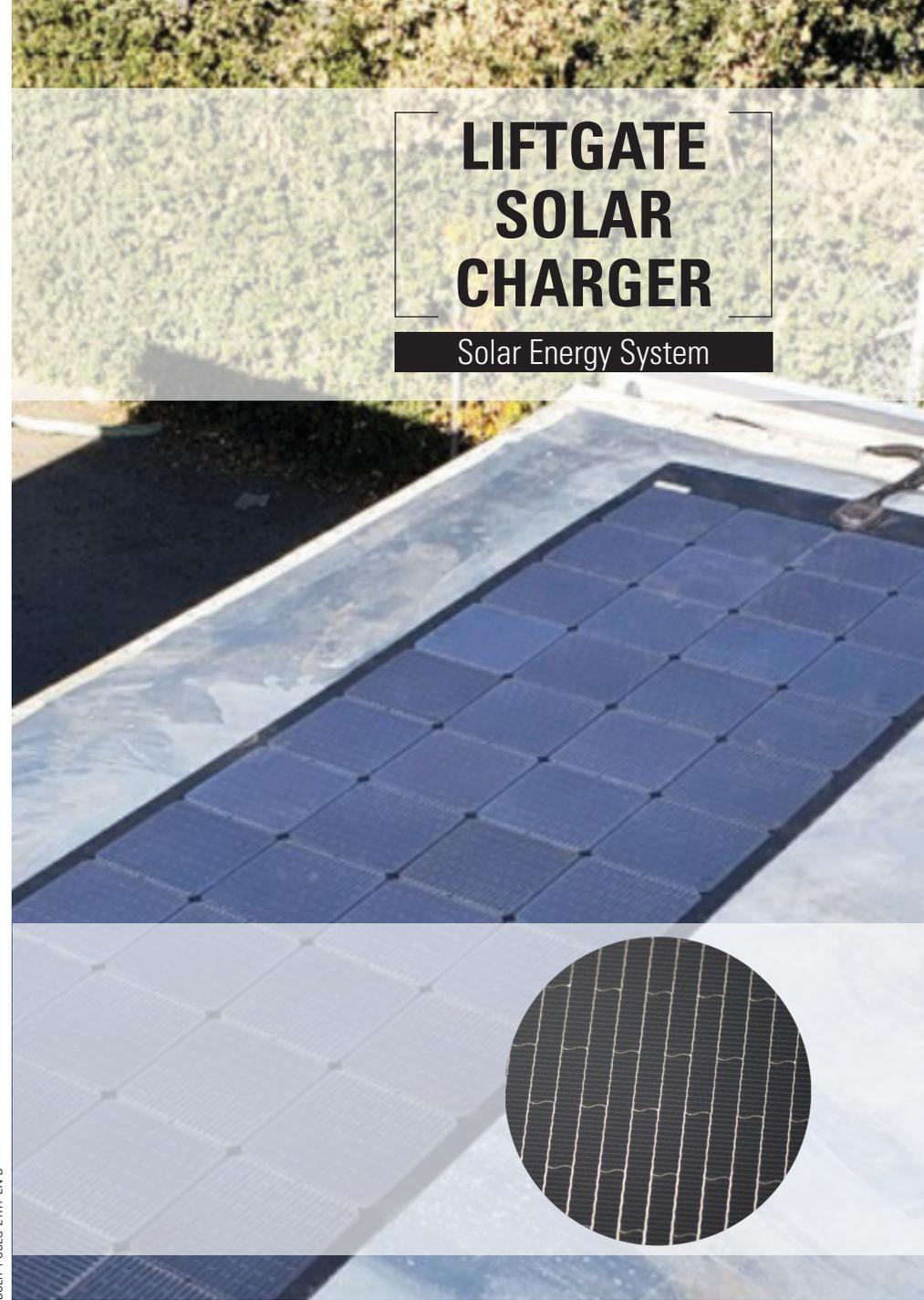
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BSLR-T-SCLG-21R1-EN-B

# LIFTGATE SOLAR CHARGER

Solar Energy System



# LIFTGATE SOLAR CHARGER SYSTEM

## TECHNOLOGY:

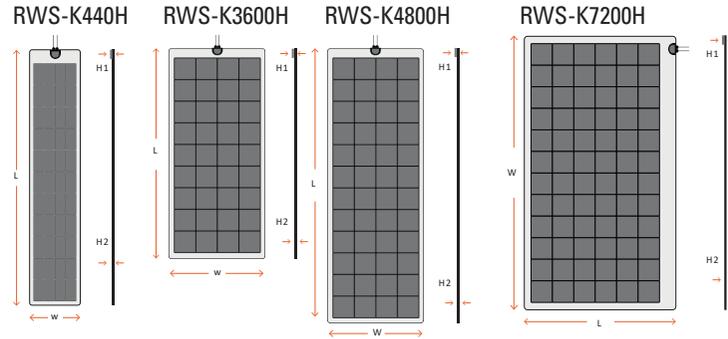
Industry leading power output | Enhanced performance under all light conditions | Designed and engineered in USA | Outstanding aesthetics | Redundancy by design | Robust module integrity & performance under extreme conditions | Military grade design, Materials & Approvals

## PRODUCT FEATURES

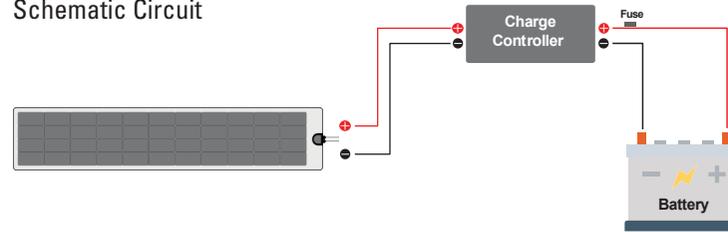
Maintains & recharges 12V house batteries and liftgate batteries | Charge through optimized charge controller Operational even on cloudy days | Easy to install, peel & stick flexible solar panels | Built-in diodes in the solar panel to handle shading | Robust grid technology to handle the harsh vibrations of the trailer roof

## CUSTOMER BENEFITS

Maximize the number of liftgate cycles & deliveries per shift/day | Prevents battery drainage as units sit unused | Eliminates "lot rot" | Maintenance free | Increase Profits | Increased Battery Lift | Reduce Operating Expenses | Reduce Cost of Ownership | Reduce Vehicle Downtime | Increase Fuel Savings | Offset up to 100% of the liftgate power | Average Battery Voltage Remains Above 13V



## Schematic Circuit



SOLAR® 15A  
IP68 CHARGE  
CONTROLLER  
PART NO:  
KTSACCAE0



SOLAR® 30A  
IP68 CHARGE  
CONTROLLER  
PART NO:  
KTSACCBE0

## Applications Chart

KIT NUMBER	RWS-K440H	RWS-K3600H	RWS-K4800H	RWS-K7200H
Lot Rot Prevention	✓	✓	✓	✓
Battery Maintenance	✓	✓	✓	✓
Jump Start Avoidance	X	✓	✓	✓
Light Duty/Low Volume	✓	✓	✓	✓
Medium Duty/Mid Volume	X	✓	✓	✓
Heavy Duty/High Volume	X	X	X	✓

## Technical Specs

ELECTRICAL CHARACTERISTICS (STC) <sup>1</sup> PV MODULE SPECS	UNIT	RWS-K440H	RWS-K3600H	RWS-K4800H	RWS-K7200H	
						JBOX LP
Top Cell Type		PERC				
Number in Series		44	36	48	2 x 36	
Rated Power (Pmax)	W	105	170	230	340	
Voltage Pmax	V	24.59	19.79	26.78	19.79	
Current Imp	A	4.27	8.59	8.59	17.18	
Voc	V	29.22	23.90	31.87	23.90	
Isc	A	4.61	9.21	9.21	19.15	
Active Area Efficiency	%	18.76	18.76	18.76	18.76	

1) STC standard test conditions: 1000W/m2 intensity, Air Mass 1.5, 25oC cell temperature. Power tolerance is +/- 5% W at STC. The electrical characteristics are within +/- 10% unless otherwise specified. Specifications are subject to change.

## Dimensions

Units	RWS-K440H		RWS-K3600H		RWS-K4800H		RWS-K7200H	
	mm / kg	in / lb	mm / kg	in / lb	mm / kg	in / lb	mm / kg	in / lb
Width	376	14 4/5	690	27 5/32	683	26 7/8	1992	78 7/16
Length	1871	73 7/16	1556	61 1/4	2029	79 7/8	1109	43 21/32
Height1	18	11/16	18	11/16	18	11/16	18	11/16
Height2	3.35	1/8	4	1/8	4	1/8	4	1/8
Weight	2.5	5.5	4.15	9.1	5.2	11.5	23.4	51.6

\* Comes with Bergstrom panel, optimized charge controller, wire harness and edge tape.

## Key Components of the Kit

Solar Panel	Flexible solar PV panel array of 105W, 170W, 230W or 340W system
Charge Controller	Optimized IP68 Rating and pre-wired for plug-n-play
Connections	Wiring harness from solar to charge controller to battery
Battery Compatibility	Lead Acid, GEL, AGM or Lithium Ion

