

Delivering leading edge, innovative power solutions for more than 30 years....

Model:BL0900CAA651S1P*****

May 2, 2024

BL0900CAA651S1P*****

Information

Model Number	BL0900CAA651S1P*****
Description	BL0900CAA651S1P***** , Class 2 Power Supply, Battery Cylindrical Can, Battery Li-Ion, , Input Rating: 100-240V~, 50-60Hz, , Output Rating: 12 Watts, Power rating with convection cooling (W) , V in 0.1V increments, Approvals: IEC 62133; UL 62133; Sea transport; Sea transport;

Model Picture



For Representation Only

Agency Documents	http://www.globtek.info/certs/BL0900CAA651S1PCBT/
CE EC-Declaration	https://www.globtek.com/pdf/ec_declaration/a0O3a00000MnvAeEAJ
RoHS/RoHS2 Declaration	https://www.globtek.com/pdf/rohs_cert/a0O3a00000MnvAeEAJ
REACH Declaration	https://www.globtek.com/pdf/iso_certificates/REACH.pdf
Conflict Minerals Declaration	https://www.globtek.com/pdf/conflict-minerals.pdf

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MODEL PARAMETERS

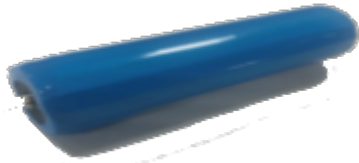
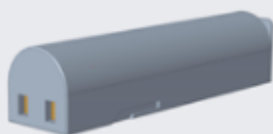
Type	Battery Cylindrical Can
Technology	Battery Li-Ion
Category	Class 2 Power Supply
Input Voltage	100-240V~, 50-60Hz
I/P Amps (A)	3
Wattage (W)	12.0
Vout Range (V)	
Efficiency Level	
Ingress Protection	
Size (mm)	

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ENCLOSURE

MODEL OPTIONS (SEE SPEC FOR SPECIFIC CONFIGURATION)			
NO.	Model	Picture	Type
1	BL0900CAA651S1P*C****		1S1P 14650 CELL with PCM and wire
2	BL0900CAA651S1PCBT***		1S1P cell with BUTTON TOP AND PCM
3	BL0900CAA651S1P*S****		1S1P cell with PCM plus solder tab
4	BL0900CAA651S1P*P****		1S1P cell with PCM and enclosure
6	BL0900CAA651S1P*WN***		1S1P cell with PCM plus added 2 welded pads insulated

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RATING TABLE

Model Number	Voltage	Amps(A)	Watts(W)	RFQ
BL0900CAA651S1PCBT2PC	V			RFQ
BL0900CAA651S1P	3.7 V	0.9	3.24	RFQ

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SPECIFICATIONS

GENERAL SPECIFICATION:

BATTERY WITH SAFETY CIRCUIT AND PLASTIC HOUSING

CELL:	IMR14650BP095
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PCM:	GLOBTEK STANDARD
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NTC:	N/A
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ID:	N/A
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CONFIGURATION:	1S1P
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WEIGHT:	TBD
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2.ELECTRICAL SPECIFICATION FOR PACK:

RATED CAPACITY:	900 mAh MIN, 950mAh TYPICAL
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NOMINAL VOLTAGE:	3.7V
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WATT-HOUR RATING:	3.33Wh
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CHARGING METHOD:	CONSTANT CURRENT + CONSTANT VOLTAGE
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MAX. CHARGE VOLTAGE [V]:	4.2V
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CHARGE CURRENT:	0.5C (standard); 1.0C (maximum)
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RECOMMENDED CHARGE CUT OFF:	BY CURRENT 95mA or 3hours charge terminate
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MAX. CONTINUOUS DISCHARGE CURRENT:	3A (6A peak load for 500us)
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RECOMMENDED DISCHARGE CUT OFF:	2.7V
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INTERNAL IMPEDANCE:	≤120 mΩ
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<https://www.globtek.com/ds/YKMJrGRyYQc/E5aDvbUgYA7.html>

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EXP. CYCLE LIFE:	>500 CYCLES > 70% OF INITIAL CAP. (0,5C/0,5C)
CELL PROTECTION:	
OVER CHARGE DETECTION:	4.425 ±0.02V (1.25 SEC. DELAY, RESUME 4.325 ±0.02V)
OVER DISCHARGE DETECTION:	2.70±0.05V (20msec. DELAY, RESUME 2.8±0.05V REMOVE LOAD & CHARGING CURRENT)
OVER CURRENT DETECTION:	3.5A to 7A (8msec. DELAY) SHORT CURRENT DETECTION: 300us DELAY
PRECONDITIONED AT THE FACTORY	YES
3. AMBIENT CONDITIONS	
TEMPERATURE RANGE:	
CHARGE:	0 TO +45°C
DISCHARGE:	-20 TO +60°C
CHARGE RETENTION/STORAGE [%]:	1 YEAR AT -20 TO +20°C >80% 3 MONTHS AT -20 TO +40°C >80% 1 MONTH AT 10 To +50°C >80%
HUMIDITY:	60 ±25%RH
4.ENVIORMENTAL AND SAFETY	
Please review quarterly and follow HANDLING AND SAFETY PRECAUTIONS FOR Lilon & LiPolymer.	
5. CELL REGULATORY APPROVALS:	

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UL:	Design to meet UL1642
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IEC 61960 Cell designation and marking:	1IMR14/65
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6. BATTERY PACK APPROVALS:	
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RoHS:	
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CE Mark:	
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TRANSPORTATION:	
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DERATING CURVE

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INPUT CONFIGURATION

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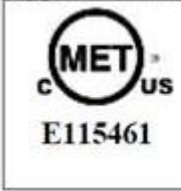
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Approvals

Logo	Description
	IEC 62133-2:2017, IEC 62133-2:2017/AMD1:2021 (IEC62133-2) for BL0900CAA651S1PCBT
 Complies with UL/CSA 62133-2:2017	MET LABS NRTL UL/CSA 62133-2:2020 for BL0900CAA651S1P*****
No Logo Applicable	Safe transport for BL0900CAA651S1PCBT Part III, Subsection 38.3 (pending) Drop test 1.2m in any orientation Package marked according to special provision 188 (pending)
No Logo Applicable	Part III, Subsection 38.3 Drop test 1.2m in any orientation Package marked according to special provision 188