

File E340541
Project 10CA39253

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REPORT

On

DIRECT PLUG-IN AND CORD-CONNECTED
CLASS 2 POWER UNITS

Globtek (Suzhou) CO LTD
Jiangsu, China

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DESCRIPTION

PRODUCT COVERED:

USL, CNL - Class 2 Battery Charger, Model GS-2066-CC(R).

GENERAL:

The unit covered by this report is a cord connected Class 2 Battery Charger.

The units consist of a Listed power supply (QQGQ, QQGQ7), GLOBTEK INC (E170507), Model GT-81081-6012-T3 with LPS output connected to battery cradle with related electronic circuitry housed in a thermoplastic enclosure, and provided with one detachable power supply cord terminated in an attachment plug with parallel blades for connection to line voltage.

ELECTRICAL RATINGS:

<u>Model</u>	<u>Input</u>			<u>Output (total five bays)</u>	
	<u>V</u>	<u>Hz</u>	<u>A</u>	<u>V dc</u>	<u>A</u>
GS-2066-CC(R)	12 V dc	-	5	4.2	0.75 (per bay)

TECHNICAL CONSIDERATIONS (Not For Field Representative's Use):

Use - For use only in products where the acceptability of the combination is determined by Underwriters Laboratories Inc.

USL - indicates investigation to the UL Standard for Safety for Class 2 Power Units, UL 1310, Fifth Edition, with revisions including and through September 30, 2010.

CNL - indicates product complies with the Standard for Power Supplies with Extra Low Voltage Class 2 Outputs, CAN/CSA C22.2 No. 223-M91, Second Edition, with revisions including and through September 1, 2009.

The unit was submitted and tested for a maximum manufacturer's recommended ambient(Tma) of 40°C(104°F).

CONSTRUCTION DETAILS:

Section General - The following construction items are described in Section General.

Instruction Manual	Segregation
C-UL Requirements	Printed Wiring Boards
Abbreviations	Internal Wiring
Blades	Electrical Connections
Spacings	Insulation Tubing/ Sleeving
Markings	Corrosion Protection

Markings - See Sec. Gen., Markings. The following markings shall be additional provided.

"For used with GLOBTEK INC adapter, model GT-81081-6012-T3 only".

"Class 2 Battery Charger"

"Backfeed Protection" or "BFP" or equivalent.

"See instruction manual for detachable power supply cord." located near appliance inlet.

"CAUTION - Risk of Injury. Charge only GLOBTEK INC, Model 2GL-523450-G2107, Lithium type rechargeable batteries." or equivalent.

Instruction - See Sec. Gen, Instruction Manual. The following instructions shall be additionally provided:

"Power Supply Cord: Use UL Listed detachable power supply cord, Min. 18 AWG, two conductors, cord rated VW-1, 105°C, cord external length minimum 1.8 m. One end terminates in a molded-on attachment plug with a 15 A, 125 V (NEMA 5-15P) or 15 A, 250 V (NEMA 6-15P) configuration. Other end terminates in a molded-on connector which mates with the AC Adapter. " The following cord type may be used.

Cord Type

Flexible Cord Type	Maximum Length, feet (m)
At least as serviceable as SP-2, SPE-2, SPT-2, SV, SVE, SVT	10 (3)
At least as serviceable as S, SE, SO, SP-3, SPT-3, ST, STO, SJ, SJE, SJO, SJT, SJTO	Not specified

Illustrations - The following Illustrations are referenced in this report:

<u>ILLs. No.</u>	<u>Descriptions</u>
1	PWB Component For Charging Cradle
2	PWB Trace Layout For Charging Cradle
3	Output Terminal Dimension

General - The general design, shape, and arrangement shall be as illustrated in the following figures, except where variations are specifically described.

MODEL GS-2066-CC(R) - FIGs. 1, 2 AND 3

1. AC Adapter - Listed (QQGQ, QQGQ7), GLOBTEK INC (E170507), Model GT-81081-6012-T3, rated input: 100-240 V ac, 50/60 HZ, 1.5 A, output: 12 V dc, 5 A.
2. Detachable Power Supply Cord - (Optional), Listed (ELBZ, ELBZ7), No. Min. 18 AWG, three conductors, cord rated VW-1, 105°C, minimum 1.8 m in length. One end terminates in a molded-on grounding type attachment plug with a 15 A, 125 V (NEMA 5-15P) or 15 A, 250 V (NEMA 6-15P) configuration. Other end terminates in a molded-on connector which mates with the AC Adapter.
3. Charging Cradle - See FIGs. 2 AND 3. Constructed as below:
 - A. Enclosure - R/C (QMFZ2), SABIC INNOVATIVE PLASTICS B V (E45329), Type HF500R, rated V-0, 125°C, min. 2.4 mm thick. Measured 195 by 80 by 50.7 mm. Two half construction, secured together by screws.

Alternate - Same as above except for R/C (QMFZ2), SABIC INNOVATIVE PLASTICS B V (E45329), Type SE1, rated V-1, 105°C.

Alternate - Same as above except for R/C (QMFZ2), SABIC INNOVATIVE PLASTICS B V (E45329), Type SE100, rated V-1, 65°C.
 - B. Printed Wiring Board - R/C (ZPMV2), rated minimum 105°C, V-1, measured 186 by 71 by 1.6 mm thick. See ILLs. 1 & 2 for component and trace layout.
 - C. Fuse (F1) - R/C (JDYX2, JDYX8), CURRENT ELECTRONIC TECHNOLOGY (HEYUAN) CO LTD (E303641), Type F93, rated 6.3 A, 63 V dc.

Alternate - Same as above except for R/C (JDYX2, JDYX8), WALTER ELECTRONIC CO LTD (E56092), Type F93, rated 6.3 A, 63 V dc.

Alternate - Same as above except for R/C (JDYX2, JDYX8), CONQUER ELECTRONICS CO LTD (E82636), Type CQ12LT, rated 6.3 A, 63 V dc.

Alternate - Same as above except for R/C (JDYX2, JDYX8), CONQUER ELECTRONICS CO LTD (E82636), Type CQ12LF, rated 6.3 A, 63 V dc.

Alternate - Same as above except for R/C (JDYX2, JDYX8), LITTELFUSE INC (E10480), Type 458, rated 6.3 A, 63 V dc.

Alternate - Same as above except for Listed (JDYX), CN, rated 6.3 A, 63 V dc.

- D. Fuse (F2) - R/C (JDYX2, JDYX8), DAITO COMMUNICATION APPARATUS CO LTD (E59783), Type KMD06, rated 0.63 A, 32 V dc.

Alternate - Same as above except for R/C (JDYX2, JDYX8), AEM INC (E232989), Type F0603FA, rated 0.63 A, 32 V dc.

Alternate - Same as above except for Listed (JDYX), CN, rated 0.63 A, 32 V dc.

- E. Transistor (U2) - Rated 3.3 V, 400 mA.
- F. Output Terminals - Five provided, phosphor bronze pins, see ILL. 3 for details of each bay.