

New Release

LTEC Corporation

Your most experienced partner in IP protection

On-Board charger (OBC): NetPower (CA16K6-2AL) Teardown Report



Module Overview



After remove the cover

Overview

In the Battery EV area it is required to shorten the charging time. The efforts are being made to increase the battery voltage to 800V and increase the charging output, and this product is compliant with these requirements. This is a Teardown report of OBC CA16K6-2AL manufactured by NetPower, which is capable of outputting MAX: 850Vdc. This module consists of *one PCB* with a small PCB having capacitors

Product characteristics

Size: W430mmxL278mmxH80mm

Weight: 10.08kg

Input voltage: 85-265V, Max input current: 32A

Charging voltage: 400-850Vdc, Max charging current: 10A

Efficiency: 94%

Power devices: Infineon/SiC MOSFET and Wolfspeed/SiC MOSFET

Report content (21 pages)

- Teardown process
- · Components size and weight measurement
- Identify key ICs and components

Report price

Delivered one week after order placement Please contact us for report pricing.

If you are interested in analysis of the PCB circuits, please feel free to contact us.



LTEC Corporation US Representative Office www.ltec-biz.com/en/ 2310 Homestead Rd, C1 #231 Los Altos, CA 94024 Phone: +1-(650) 382-1181 contact2@ltec.biz

Report No : 23G-0788-1 Release day : 2023.12.01

TABLE OF CONTENTS

				Page
<u>Summary</u>				
	Table 1	Product information	•••	3
Product dis	<u>sassembly</u>			
		Overview of products	•••	4
		Installation Status [Top cover]	•••	5
		Installation Status [Main PCB with connectors]	•••	6
		Installation Status [connector 1]		7
		Installation Status [Main PCB]		8
		Installation Status [Capacitor PCB]	•••	9
		Installation Status [leaf spring]	•••	10
		Installation Status [thermistor]		11
		Installation Status [connector 2]	•••	12
		Installation Status [connector 3]	•••	13
		Installation Status [Bottom Cover]	•••	15
		Installation Status [Chassis]	•••	16
<u>Overview</u>				
	Fig. 1	Main PCB Overview	•••	17
	Fig. 2	Location of main parts (top view of main PCB)		18
	Fig. 3	Location of main parts (Bottom View of main PCB)	•••	19
	Fig. 4	Main PCB moisture-proof coating area	•••	20
Parts conn	<u>ection</u>			
	Fig. 5	Connection		21

