

APAC Sales Meeting

Dec 2022 ProTrad Corp./Japan Hitoshi HIRAI

Project overview



Project	EV Battery package project for Construction and agricultural machinery	Start	2016		Final Product Pictures	As the first model
Customer	Power Supply Technology	Value	60 pcs as the first year In future, it is depending on the market share and the development	ë		
Project Phase	• Final stage for the first mass production (January 2023)					
Customer Goals	Supply to many application to EV manufacturer for Construction and agricultural machinery					
Project Description	 2016 Presentation start and Technical clarification 2017 Test package for EV camping car based on Nissan car 2020 New project has been started. 2021 Test and clarification by Japanese customer 2022 Test and clarification by Japanese customer 2023 The first production and export to Europe 			And the second	Application (Ticulie)	EXAMPLE I I I I I I I I I I I I I I I I I I I

At a glance

EXAMPLE BENDER

Customer problem

Japanese customer's tough requirement and the requested High Quality level

Benefit for the customer

Total cost saving by Good performance of Bender IMD and matching with Internationad standard for Export

Solution

Many testing, many clarification in detail and Quality check because the requirement comes from Japanese EV manufacturer.

Project scope

1st supply customer : Nissan subsidary 2nd supply customer : Kubota Approching to Compnay "H", "Y" and "N" The first Project for Nissan Camping Car



 As the first project, IR155 has been applied for the large battery system for Nissan Camping Car. -> Failed for sales.



The second Project for Kubota



EV shifting for Construction and Construction and

agricultural machinery



Kubota Concept Tractor

Japanese MFRs for Construction and agricultural machinery wants to get the market share in world for this application.

He wants to expand the application using this battery package.

Domestic use & Export to Europe



To get the order for Mass production from Power Supply Technology (Actually, same for Japanese customers)

- Any Japanese customer asks the detail clarification in case of the application for Mass production
- High quality level is required.
 (Ex. Heat Shock Test : 100 time in Europe, 2000-3000 times in Japan)
- Quality control level must be kept at high level.
 Japanese customer can charge the damage caused by Manufacturer fault. (Importer's duty by Japanese law.)
- Stable delivery

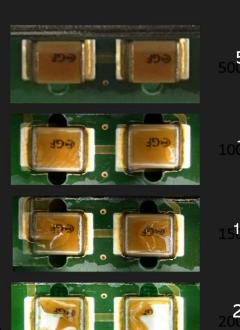




Heat Shock Test







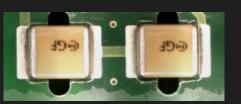
ocyc

500 Cycle

01000 Cycle

1500 Cycle

2000 Cycle



O Cycle

MAN Standard asks 100 time for European standard. But Japanese customer asks the

test based on Japanese customer's standard.

Because Customer wants to check how damage is given.

Crack of the coating is confirmed

Future & Request for Japanese Market



Request from Japanese market

- 1. Good Quality Control Construction and Agriculture equipment is harder for environmental condition than EV
- 2. Stable Delivery
- 3. Quick response regarding the technical issue and QC matter

<u>Future</u>

The result comes from the reliability of the product and the confidence of Bender and Agent

End



Thank for your attention