

Battery Technical Report

Manufacturer's battery specification sheet and Material Safety Data Sheet are in document:
samsung-35e-datasheet-inr18650-35e.pdf

CONTACT INFORMATION

Date: <u>14.10.2019</u>	Team Number: <u>660331508</u>
Organization: <u>PUT Solar Dynamics</u>	Team Battery Contact Email: <u>konradgieregowski@gmail.com</u>
Team Email: <u>putsolardynamictechniczni@gmail.com</u>	Phone: <u>507644797</u>

MANUFACTURER INFORMATION

Manufacturer: <u>SAMSUNG SDI Co., Ltd.</u>	Type (LION, etc): <u>LION</u>
Battery Name: <u>SAMSUNG INR18650-35E</u>	Model Number: <u>INR18650-35E</u>
Battery Capacity (Ah): <u>95,2</u>	Charge Rate: <u>0.5C</u>
Battery Mass (kg): <u>0.05</u>	Cell Voltage: <u>3.6V</u>
Battery Cost (US\$): <u>3.31</u>	Max Discharge Current per Cell: <u>8 A</u>

VEHICLE BATTERY PACK SPECIFICATIONS

Number of batteries in the vehicle battery pack : <u>1568</u>	Pack Voltage: <u>100.8 V</u>
Pack Mass (kg): <u>120</u>	
Pack Configuration: <u>28S 56P</u>	

SUPPLIER INFORMATION

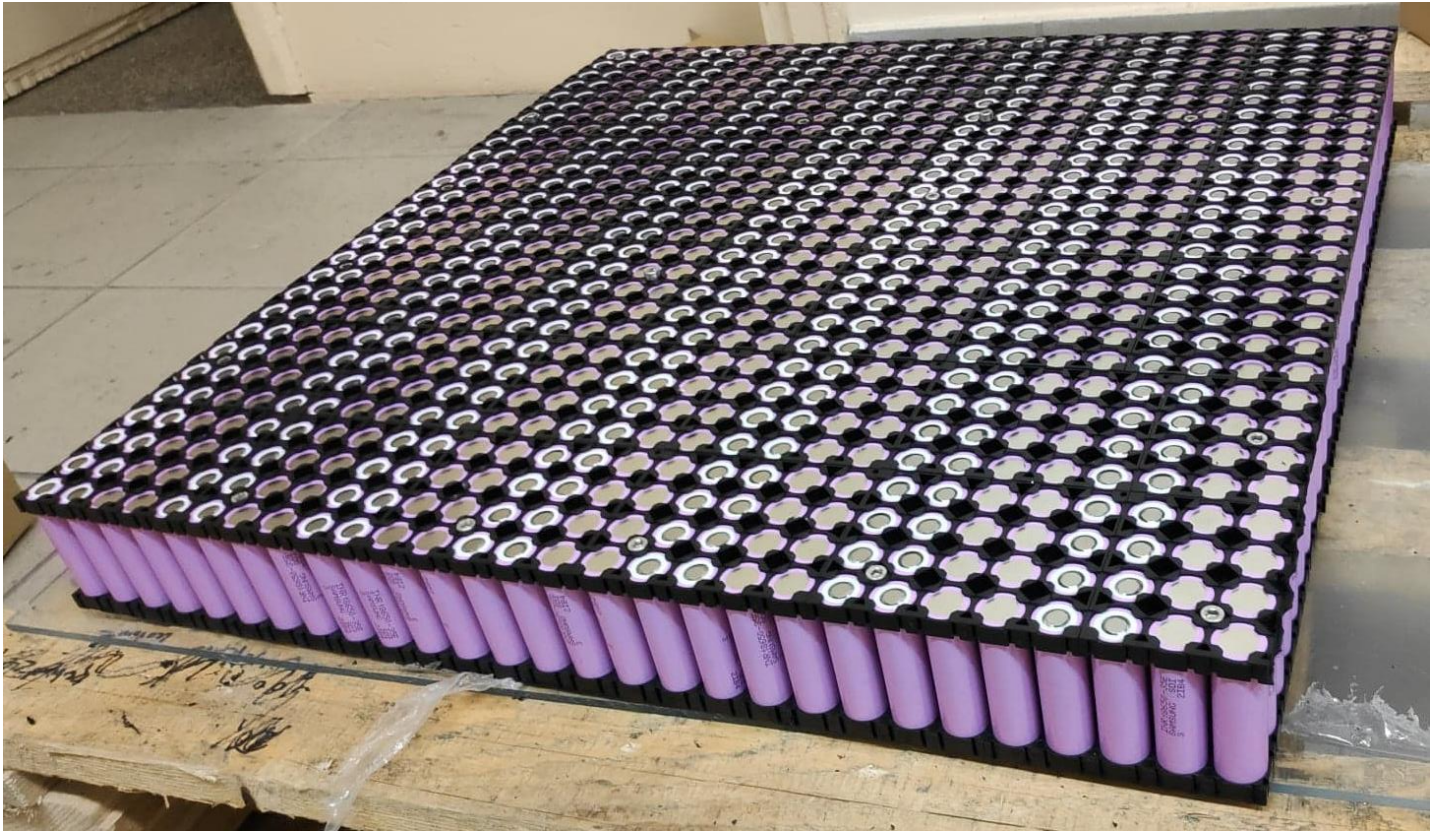
Information for the company that is supplying the batteries to the team. This may be the original manufacturer or a reseller. If the supplier uses a different model name or number than the manufacturer, please provide that information.

Supplier: <u>Batimex Sp. z o.o.</u>	Contact: <u>Mon-Fri 9:00 - 17:00</u>
Email: <u>batimex@batimex.pl</u>	Phone: <u>(+48 22) 7392900</u>
Supplier Battery Name: <u>SAMSUNG INR18650-35E</u>	Supplier Model #: <u>INR18650-35E</u>

External layer made of steel, inner layer is a 1,5 cm thickness non-flammable and chemical resistive rubber protecting battery from each side. This rubber is hard material and will not flex under the pressure of the battery.

Car body is made from composite which is insulator so mounting metal battery enclosure to it with screws and nuts is safe.

Supplemental Battery is 12 V VRLA battery.





To ensure a rigidity of the construction we will add two double T shaped aluminum profiles which are screwed to the battery enclosure and car chassis.

