



ASC/FSGP Battery Approval Form

Submit to ascteams@americansolarchallenge.org

NOTE: The manufacturer's specification sheet, the battery's MSDS sheet with accident protocol, and a description of the protection circuitry (protection circuitry schematic, high level description, list of items protected) must also be submitted to ASC prior to approval. Battery approval is subject to verification at Scrutineering. If the manufacturer changes the battery's specifications, the new specifications must be submitted for re-approval. Teams should bring AT LEAST 3 unmodified cells for weight verification.

CONTACT INFORMATION

Date: May 15, 2017 **Team Number:** 24
Organization: Midnight Sun Solar Rayce Car Team **Team Battery**
mail: taiping.li@uwmidsun.com **Contact:** Taiping Li
Phone: 226 - 606 - 9948

MANUFACTURER INFORMATION

Manufacturer: LG Chem **Type (lead acid, LION, etc):** LI-ION
Battery Name: LG MJ1 **Model Number:** INR18650 MJ1
Battery Capacity (Ah): 3.5 **Rate (C/3, C/20, etc):** 0.2C Standard
Battery Mass (kg): Max 0.049kg **Battery Voltage:** Discharge
Battery Cost (US\$): \$3.88 USD **Max Current per Cell:** Nominal: 3.635 V
Max Current per Cell: Max: 4.2V
Max Current per Cell: 10A

VEHICLE BATTERY PACK SPECIFICATIONS

Number of batteries in the vehicle battery pack : 1296 Cells
Pack Mass (kg): 63.504 kg in cells alone **Pack Voltage:** Nominal: 130.86V
Pack Configuration: 36 cells in parallel for a module, and 36 modules in series with each other

SUPPLIER INFORMATION

The manufacturer is the Manufacturer of the battery cell This must be the **original manufacturer** not a reseller. If the supplier uses a different model name or number than the manufacturer, please provide that information, also.

Manu. URL: http://www.lgchem.com/global/main **Contact:** Jon Caserta, Liion Wholesale Batteries (Supplier)
Email: support@liionwholesale.com **Phone:** 888-972-2883
Battery Name: LG INR18650MJ1 **Supplier Model #:** LG INR18650MJ1

Note: For this form, the term "battery" refers to the smallest single unit produced by the manufacturer. A lithium ion battery usually contains one cell. A typical 12v lead acid battery contains six cells. Teams or suppliers may group batteries together to form "modules". The term "battery pack" refers to the full vehicle battery system made up of multiple batteries.