Modular Battery Tester for 50A, 100A, and 200A Applications

PCB Number: TIDA-01042
PCB Rev: A

Label Table

<table>
<thead>
<tr>
<th>Variant</th>
<th>Label Text</th>
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<tbody>
<tr>
<td>001</td>
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<tr>
<td>002</td>
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Assembly Note

These assemblies are ESD sensitive, ESD precautions shall be observed.

These assemblies must be clean and free from flux and all contaminants. Use of no clean flux is not acceptable.

These assemblies must comply with workmanship standards IPC-A-610 Class 2, unless otherwise specified.

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Enable Jumpsers

Optional Ground Jumpsers
Engineer:

Drawn By:

Contact:

File:

Assembly Variant:

Sheet Title:

Project Title:

Designed for:

Version control disabled

SVN Rev:

Number:

TID #:

Orderable:

Power Stage

Modular Battery Tester for 50A, 100A, and 200A Applications

R16 will actually be 0.5mOhm in assembly and BOM (WSLP2726L5000FEA)

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Current Control

- **Gain = 1 + 50/1.15 = 44.48**: for low currents

- **Output (low current) = 0V to 2.25V**: for low currents

- **Output (high current) = 0V to 2.25V**: for high currents

- **Buffer**: 7.00314448o to 2.2224V

- **IRF**: 0.0005 * 44.48V + 0.1A

- **IBAT**: 0.01uF

- **HTSW-103-07-G-S**: unused pins should be left unconnected and not used in any application.
Analog Loop Controller
Modular Battery Tester for 50A, 100A, and 200A Applications

Buck Mode:
DIR=0, EN=1
MOSFET turn off

Boost Mode:
DIR=1, EN=1
MOSFET turn off

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http://www.ti.com
Engineer: Taras Dudar, Arash Sabet-Payman
Drawn By: 

Sheet: SV601272A-ADC.SchDoc

Size: 9

Mod. Date: 4/4/2019

Sheet Title: Modular Battery Tester for 50A, 100A, and 200A Applications

Version control disabled

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