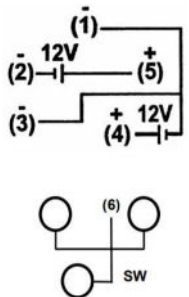


# MB-2590-300

## High Capacity 300Wh Rechargeable Li-ion Battery with SMBus

- High Energy Density
- Mission-Capable
- NSN Equivalent, Designed & Tested to MIL-PRF-32383/3



Advanced Features	
Ruggedized for Military Use	
SMBus v1.1 Compliant	
Wide Operating Temperature Range	
Highly Accurate "Fuel Gauge" Display	
Advanced Thermal & Over Charge Protection	
Intelligent Battery System with Multiple Charging Options	
Applications	
Communication & Data Devices	
UGVs & MUGVs	
UAV & UUV	
Advanced Tactical Devices	
Cable Connector Pin Out Diagram	
	<ul style="list-style-type: none"> <li>○ ← CLOCK (PINS 1 – 4)</li> <li>○ ← DATA (PINS 1 – 4)</li> <li>○ ← CHARGE ENABLE</li> <li>○ ← CLOCK (PINS 2 – 5)</li> <li>○ ← DATA (PINS 2 – 5)</li> </ul>

<b>Manufacturer ID</b>	07-52590
<b>Model Number</b>	MB-2590-300
<b>NSN Number</b>	Pending
<b>Voltage Range</b>	Series: 20 V - 33.6 V Parallel: 10 V - 16.8 V
<b>Nominal Voltage</b>	Series: 28.8 V Parallel: 14.4 V
<b>Nominal Capacity</b>	Series: 10.35 Ah Parallel: 20.7 Ah
<b>Maximum Discharge Current</b>	Series: 12.5 A Parallel: 25.0 A
<b>Energy / Total Power</b>	288 Wh Minimum / 298 Wh Nominal
<b>Energy Density</b>	199 Wh/Kg
<b>Communication</b>	SMBus v1.1
<b>Weight</b>	3.2 lbs (1.5 kg)
<b>Dimensions</b>	5.0" (127.0mm) x 2.45" (62.6mm) x 4.40" (111.8mm)
<b>Cycle Life</b>	70% Capacity after 500 cycles
<b>Operating Temperature</b>	-30°C to 55°C
<b>Storage Temperature</b>	-20°C to 50°C
<b>Terminals / Connector</b>	Floating Type USA DWG SC-C-179495
<b>Transportation</b>	Class 9 / IATA / UN 38.3
<b>Water Immersion</b>	1 Meter Submersion, MIL-PRF-32383: 3.4.5.1
<b>Charge Indicator</b>	Two Independent 5-Segment LCDs (Constant On Display)