

BB-2590/U

Battery Datasheet



Introduction

The BB-2590/U power supply is mainly composed of two independent 14.4V (4 series, 3 parallel and 18650) lithium ion battery packs, which can be used in series or parallel for most 12V and 24V power supply systems.

Each battery pack has its own functions such as power metering and power indication, over-voltage and under-voltage protection, charge and discharge over temperature protection, discharge over-current (overload) and short-circuit protection, charge control unit, standard intelligent battery SBS V1.1 specification and communication interface.

Typical Applications

- a. Robotics, UAVs, Jammers
- b. Surveillance / Sensors
- c. SINCGARS & ATCS (AN / PRC -104, 119)

Features

1. Complies with SM Bus V1.1
2. Over Charging and over discharging protection circuit
3. Battery protection circuit module (PCM) incorporated
4. State of charger (SOC) display
5. Rugged military casing
6. Smart circuit technology
7. High energy Density

Technical Data

Parameter	Value
Nominal Voltage	14.4/28.8V
Nominal Capacity	8.2 Ah for each Section of 14.4V
Max Discharge	6.0 A Per Section
Max Pulse Discharge	15A (5 sec ON/25 sec OFF) / Section
Dimensions	127mm * 112mm * 62mm
Energy	236Wh
Weight	1.45 Kg Approx.
Life Cycle	Min 300 cycles
Memory Effect	No memory effect
Discharge Temp	-25°C to +55°C
Charging Temp	0°C to +45°C
Storage Temp	-30°C to +60°C
Self-Discharge	Negligible
Exterior/Housing	Plastic
Shell Color	Beige
Terminals/Connectors	Floating Type (As Per US Army Dwg)
State of Charge Indicator	2 separate 5 Segment LCD Displays

Battery Capacity

	Operating Temp	Discharge Rate	Discharge Capacity	Remarks
Discharge Capacity	Normal Temp +25°C	0.3C (2.5A)	100%	Standard charging
	High Temp +55°C	0.3C (2.5A)	≥95%	Standard charging
	Low Temp -25°C	0.3C (2.5A)	≥70%	Standard charging

SOC indicating state

The low power consumption 5 segment LCD is used as Electricity indication, and the highest indication section is flashing when charging. When the discharge capacity is less than 10%, the lowest indicator is flicker. As an alarm of low power, the battery should be charged in time.

SEGMENTS

STATE OF CHARGE

0	0%(FULLY DISCHARGED)
1	0 TO 20%
2	21 TO 40%
3	41 TO 60%
4	61 TO 80%
5	81 TO 100%(FULLY CHARGED)

NOTE:

THE BB-2590 HAS A SELF DISCHARGE RATE OF ABOUT 10% PER MONTH. THUS...ENSURE A FRESH CHARGE PRIOR TO MISSIONS!