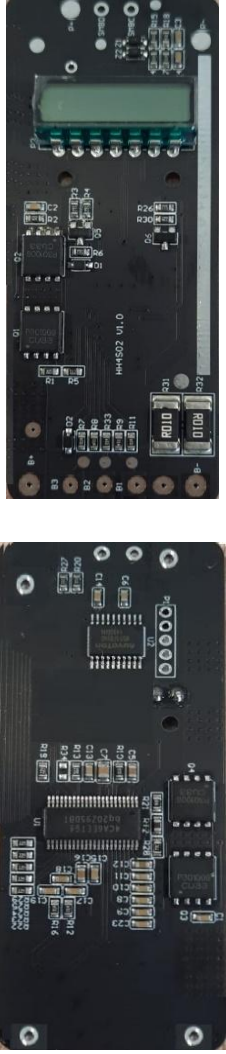
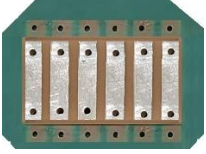


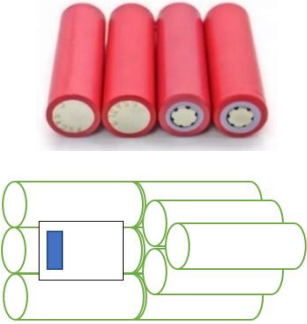


INDIGENOUSLY DEVELOPED AND MANUFACTURED PARTS
BATTERY 10.8V 7.5AH FOR SOPHIE THERMAL IMAGER

	Item / Part	Picture
1.	<p>BMS with Fuel Gauge and SMBus</p> <ul style="list-style-type: none"> • Completely SMT technology • Texas Instrument USA programable IC • Real Time monitoring of Battery parameters before body welding <ul style="list-style-type: none"> ✓ Charging Current ✓ Voltage of each cell ✓ Cell balancing ✓ State of Fuel Gauge ✓ Design Capacity ✓ Full charge capacity ✓ Remaining capacity ✓ Number of cycles ✓ Run Time, etc • Protections <ul style="list-style-type: none"> ✓ Over Voltage ✓ Over Charge ✓ Under Voltage ✓ Reverse Polarity ✓ Short Circuit 	
2.	<p>Bottom PCB / Charging Points</p> <ul style="list-style-type: none"> • Gold Plated Contact Points • Allows charging with Brentronic Charger 	
3.	<p>Output</p> <ul style="list-style-type: none"> • Non-Magnetic Stainless-Steel Pins • 100% compatible with Sophie Thermal Sight 	

4.	<p>Battery Case</p> <ul style="list-style-type: none"> • ABS Material • Upper and Lower portion are ultrasonic welded • High and Low Temperature Resistant • Fits perfectly in Brentronic Battery Charger 
5.	<p>Battery Pack</p> <ul style="list-style-type: none"> • Pack of 9 Cells (3S3P) Li-Ion Cells • Size of Cells 18650 • Capacity of each Cell 2500mAh • Each Cell matched before spot welded • 224 Life Cycles with 80%DoD 

- Cells are imported from China. Li-Ion Cell is not manufactured in Pakistan.
- Battery packs / Cells of our cell manufacture have already been approved by IE&I.
- Our trade link with cell manufacturer already verified by ADP China.

Before Assembly Such Tests are Carried Out

Charging Scan Test

Texas Instruments bq Gas Gauge Evaluation Software - bq20z65R1 v1.05 - [SBS Data]

File Options AutoCycle View Window Help

REAL WORLD SIGNAL PROCESSING™

Refresh Start Logging Stop Logging Keep Scanning Write 2 word Command

Name	Value	Unit	Log	Scan
Manufacturer Access	0000	hex	✓	✓
Remaining Cap. Alarm	700	mAh	✓	✓
Remaining Time Alarm	10	min	✓	✓
Battery Mode	6001	hex	✓	✓
At Rate	0	mA	✓	✓
At Rate Time To Full	65535	min	✓	✓
At Rate Time To Empty	65535	min	✓	✓
At Rate OK	1	-	✓	✓
Temperature	21.85	degC	✓	✓
Voltage	11836	mV	✓	✓
Current	2011	mA	✓	✓
Average Current	2012	mA	✓	✓
Max Error	1	%	✓	✓
Relative State of Charge	78	%	✓	✓

Name	Value	Unit	Log	Scan
Absolute State of Charge	77	%	✓	✓
Remaining Capacity	6004	mAh	✓	✓
Full charge Capacity	7714	mAh	✓	✓
Run time To Empty	65535	min	✓	✓
Average Time to Empty	65535	min	✓	✓
Average Time to Full	85	min	✓	✓
Charging Current	4500	mA	✓	✓
Charging Voltage	12600	mV	✓	✓
Battery Status	0080	hex	✓	✓
Cycle Count	17	-	✓	✓
Cell Voltage 4	0	mV	✓	✓
Cell Voltage 3	3982	mV	✓	✓
Cell Voltage 2	3925	mV	✓	✓

Name	Value	Unit	Log	Scan
Cell Voltage 1	3930	mV	✓	✓
FET Control	0000	hex	✓	✓
PF Status	0000	hex	✓	✓
PF Alert	0000	hex	✓	✓
PF Status 2	0000	hex	✓	✓
PF Alert 2	0000	hex	✓	✓
Safety Status	0000	hex	✓	✓
Safety Alert	0000	hex	✓	✓
Safety Status 2	0000	hex	✓	✓
Safety Alert 2	0000	hex	✓	✓
Operation Status	8403	hex	✓	✓
Charging Status	0240	hex	✓	✓
Temperature Range	0000	hex	✓	✓

Flags / Status Bits

Battery Status - SCANNING
 DCA TCA RSV D OTA TDA RSV D RCA RTA
 INIT DSB RC FD EC3 EC2 EC1 E00

Operation Status - SCANNING
 PRES FAS SS OSV RSV D LDM D RSV D RSV D
 WAKE DSB XD56 XD58 XD59 R_DS18 R_DS18 VOK QEN

Charging Status - SCANNING
 XCHB DHSUSP PCHB MOHB LTOHB STLOHB STZCHB HTOHB
 RSV D CB PMATO CMTD OCH6V OCH6I OC XPH6LV

PF Status - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

PF Alert - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Battery Mode - SCANNING
 CgmR ChgM AM RSV D RSV D RSV D RSV D RSV D
 CF RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

FET Control - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Temperature Range - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Safety Status - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Safety Alert - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Fuel Gauge 78%

Scan Off Dev: Read

Communication OK

SBS Task Progress: 100% Task Completed. 09:54:05 PM

12°C 9:54 PM 12/17/2022

Discharging Test

Texas Instruments bq Gas Gauge Evaluation Software - bq20z65R1 v1.05 - [SBS Data]

File Options AutoCycle View Window Help

REAL WORLD SIGNAL PROCESSING™

Refresh Start Logging Stop Logging Keep Scanning Write 2 word Command

Name	Value	Unit	Log	Scan
Manufacturer Access	0000	hex	✓	✓
Remaining Cap. Alarm	700	mAh	✓	✓
Remaining Time Alarm	10	min	✓	✓
Battery Mode	6001	hex	✓	✓
At Rate	0	mA	✓	✓
At Rate Time To Full	65535	min	✓	✓
At Rate Time To Empty	65535	min	✓	✓
At Rate OK	1	-	✓	✓
Temperature	21.75	degC	✓	✓
Voltage	11380	mV	✓	✓
Current	-1689	mA	✓	✓
Average Current	-1689	mA	✓	✓
Max Error	1	%	✓	✓
Relative State of Charge	77	%	✓	✓

Name	Value	Unit	Log	Scan
Absolute State of Charge	76	%	✓	✓
Remaining Capacity	5890	mAh	✓	✓
Full charge Capacity	7714	mAh	✓	✓
Run time To Empty	209	min	✓	✓
Average Time to Empty	209	min	✓	✓
Average Time to Full	65535	min	✓	✓
Charging Current	4500	mA	✓	✓
Charging Voltage	12600	mV	✓	✓
Battery Status	00C0	hex	✓	✓
Cycle Count	17	-	✓	✓
Cell Voltage 4	0	mV	✓	✓
Cell Voltage 3	3827	mV	✓	✓
Cell Voltage 2	3786	mV	✓	✓

Name	Value	Unit	Log	Scan
Cell Voltage 1	3766	mV	✓	✓
FET Control	0000	hex	✓	✓
PF Status	0000	hex	✓	✓
PF Alert	0000	hex	✓	✓
PF Status 2	0000	hex	✓	✓
PF Alert 2	0000	hex	✓	✓
Safety Status	0000	hex	✓	✓
Safety Alert	0000	hex	✓	✓
Safety Status 2	0000	hex	✓	✓
Safety Alert 2	0000	hex	✓	✓
Operation Status	8443	hex	✓	✓
Charging Status	0200	hex	✓	✓
Temperature Range	0000	hex	✓	✓

Flags / Status Bits

Battery Status - SCANNING
 DCA TCA RSV D OTA TDA RSV D RCA RTA
 INIT DSB RC FD EC3 EC2 EC1 E00

Operation Status - SCANNING
 PRES FAS SS OSV RSV D LDM D RSV D RSV D
 WAKE DSB XD56 XD58 XD59 R_DS18 R_DS18 VOK QEN

Charging Status - SCANNING
 XCHB DHSUSP PCHB MOHB LTOHB STLOHB STZCHB HTOHB
 RSV D CB PMATO CMTD OCH6V OCH6I OC XPH6LV

PF Status - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

PF Alert - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Battery Mode - SCANNING
 CgmR ChgM AM RSV D RSV D RSV D RSV D RSV D
 CF RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

FET Control - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Temperature Range - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Safety Status - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Safety Alert - SCANNING
 RSV D RSV D RSV D RSV D RSV D RSV D RSV D RSV D

Fuel Gauge 77%

Scan Off Dev: Read

Communication OK

SBS Task Progress: 100% Task Completed. 09:44:17 PM

12°C 9:44 PM 12/17/2022