



## Connection guide for BMS Tools V1.0

1. Using an RS-485 (RJ45 Pins 1-B,2-A) to USB-A connect to the RS-485 port of the battery and then to a USB-A port on a Windows computer.
2. Remove any
3. Set the battery's dip switch you are connecting to (ID:64 for 6 dip switch version or 4 dip switch version ID:16)
4. Now power on the EG4 PowerPro, EG4 LL-S, EG4 V2 or V1.
5. Confirm that the RS485 cable's COM is set correctly in the BMS Tools program.  
Refer to Device Manager if needed.

BMS\_TOOLS V1.0

COM COM30 Refresh Baud Rate 115200 ID: 1 Start Monitoring

BMS Monitoring BMS Parameter Historical Record BMS Datalog Communication

Model Information

Com State Offline Model

Version SN

Battery Information

Status Heater SOC % SOH %

Voltage V Current A Capacity AH Remain C AH

Max Vol V Min Vol V Vol Diff V Max C-C A

Max Temp °C Min Temp °C Temp Diff °C Cell Num

Temperature Information(°C)

PCB Temp Ambient Temp

Temp01 Temp02 Temp03 Temp04

Voltage(V)

Cell01 Cell02 Cell03 Cell04 Cell05 Cell06 Cell07 Cell08

Cell09 Cell10 Cell11 Cell12 Cell13 Cell14 Cell15 Cell16

Error Status

Voltage Error

Temperature Error

Current Error

Cell Unbalance

Warn Status

Pack OV

Cell OV

Pack UV

Cell UV

Charge OC

Discharge OC

Temp Anomaly

MOS OT

Charge OT

Discharge OT

Charge UT

Discharge UT

Low Capacity

Other Error

Protect Status

Pack OV

Cell OV

Pack UV

Cell UV

Charge OC

Discharge OC

Temp Anomaly

MOS OT

Charge OT

Discharge OT

Charge UT

Discharge UT

Float Stopped

Discharge SC



## 6. Change the Baud Rate: to 9600.

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Monitor Status

COM: COM30 Refresh Baud Rate: 9600 ID: 1 Start Monitoring

BMS Monitoring BMS Parameter Historical Record BMS Datalog Communication

Model Information

Com State: Offline Model: Version: SN:

Battery Information

Status: Heater: SOC: % SOH: %  
Voltage: V Current: A Capacity: AH Remain C: AH  
Max Vol: V Min Vol: V Vol Diff: V Max C-C: A  
Max Temp: °C Min Temp: °C Temp Diff: °C Cell Num:

Temperature Information(°C)

PCB Temp: Ambient Temp:  
Temp01: Temp02: Temp03: Temp04:

Voltage(V)

Cell01: Cell02: Cell03: Cell04: Cell05: Cell06: Cell07: Cell08:  
Cell09: Cell10: Cell11: Cell12: Cell13: Cell14: Cell15: Cell16:

Error Status

Voltage Error  
Temperature Error  
Current Error  
Cell Unbalance

Warn Status

Pack OV  
Cell OV  
Pack UV  
Cell UV  
Charge OC  
Discharge OC  
Temp Anomaly  
MOS OT  
Charge OT  
Discharge OT  
Charge UT  
Discharge UT  
Low Capacity  
Other Error

Protect Status

Pack OV  
Cell OV  
Pack UV  
Cell UV  
Charge OC  
Discharge OC  
Temp Anomaly  
MOS OT  
Charge OT  
Discharge OT  
Charge UT  
Discharge UT  
Float Stopped  
Discharge SC



## 7. Change the ID: to (ID:64 for 6 dip switch version or 4 dip switch version ID:16)

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Monitor Status

COM COM30 Refresh Baud Rate 9600 ID: 64 Start Monitoring

BMS Monitoring BMS Parameter Historical Record BMS Datalog Communication

Model Information

Com State Offline Model

Version SN

Battery Information

Status Heater SOC % SOH %

Voltage V Current A Capacity AH Remain C AH

Max Vol V Min Vol V Vol Diff V Max C-C A

Max Temp °C Min Temp °C Temp Diff °C Cell Num

Temperature Information(°C)

PCB Temp Ambient Temp

Temp01 Temp02 Temp03 Temp04

Voltage(V)

Cell01 Cell02 Cell03 Cell04 Cell05 Cell06 Cell07 Cell08

Cell09 Cell10 Cell11 Cell12 Cell13 Cell14 Cell15 Cell16

Error Status

Voltage Error

Temperature Error

Current Error

Cell Unbalance

Warn Status

Pack OV

Cell OV

Pack UV

Cell UV

Charge OC

Discharge OC

Temp Annaly

MOS OT

Charge OT

Discharge OT

Charge UT

Discharge UT

Low Capacity

Other Error

Protect Status

Pack OV

Cell OV

Pack UV

Cell UV

Charge OC

Discharge OC

Temp Annaly

MOS OT

Charge OT

Discharge OT

Charge UT

Discharge UT

Float Stopped

Discharge SC



## 8. Now click Start Monitoring.

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Monitor Status

COM: COM30 Refresh Baud Rate: 9600 ID: 64 Start Monitoring

BMS Monitoring BMS Parameter Historical Record BMS Datalog Communication

Model Information

Com State: Offline Model: Version: SN:

Battery Information

Status: Heater: SOC: % SOH: %  
Voltage: V Current: A Capacity: AH Remain C: AH  
Max Vol: V Min Vol: V Vol Diff: V Max C-C: A  
Max Temp: °C Min Temp: °C Temp Diff: °C Cell Num:

Temperature Information(°C)

PCB Temp: Ambient Temp:  
Temp01: Temp02: Temp03: Temp04:

Voltage(V)

Cell01: Cell02: Cell03: Cell04: Cell05: Cell06: Cell07: Cell08:  
Cell09: Cell10: Cell11: Cell12: Cell13: Cell14: Cell15: Cell16:

Error Status

Voltage Error  
Temperature Error  
Current Error  
Cell Unbalance

Warn Status

Pack OV  
Cell OV  
Pack UV  
Cell UV  
Charge OC  
Discharge OC  
Temp Anomaly  
MOS OT  
Charge OT  
Discharge OT  
Charge UT  
Discharge UT  
Low Capacity  
Other Error

Protect Status

Pack OV  
Cell OV  
Pack UV  
Cell UV  
Charge OC  
Discharge OC  
Temp Anomaly  
MOS OT  
Charge OT  
Discharge OT  
Charge UT  
Discharge UT  
Float Stopped  
Discharge SC



BMS\_TOOLS V1.0

Monitor Status

COMCOM30RefreshBaud Rate9600ID:34Stop Monitoring

BMS MonitoringBMS ParameterHistorical RecordBMS DatalogCommunication

Model Information

Com StateOnlineModelLFP-S1.2V100Ah-V1.0

VersionZ02T15SNN2023-10-13

Battery Information

StatusStandbyHeaterHeat offSOC99%SOH100%

Voltage53.86VCurrent0.00ACapacity100AHCRemain C99AH

Max Vol3.370VMin Vol3.365VVol Diff0.005VMax C-C5A

Max Temp35°CMin Temp35°CTemp Diff0°CCell Num16

Temperature Information(°C)

PCB Temp35Ambient Temp34

Temp0135Temp0235Temp0335Temp0434

Voltage(V)

Cell013.367Cell023.369Cell033.368Cell043.366Cell053.366Cell063.366Cell073.365Cell083.367

Cell093.365Cell103.367Cell113.366Cell123.366Cell133.366Cell143.370Cell153.366Cell163.368

Error Status

Voltage Error

Temperature Error

Current Error

Cell Unbalance

Warn Status

Pack OV

Cell OV

Pack UV

Cell UV

Charge OC

Discharge OC

Temp Anomaly

MOS OT

Charge OT

Discharge OT

Charge UT

Discharge UT

Low Capacity

Other Error

Protect Status

Pack OV

Cell OV

Pack UV

Cell UV

Charge OC

Discharge OC

Temp Anomaly

MOS OT

Charge OT

Discharge OT

Charge UT

Discharge UT

Float Stopped

Discharge SC



9. On the Historical Record tab, you can monitor real time information while the BMS Tools V1.0 is communicating with the battery. To see BMS Parameter, BMS Datalog, and the Communication Tab please refer to the BMS Tools V1.0 RS232 connection guide.

BMS\_TOOLS V1.0

Monitor Status

COM COM30 Refresh Baud Rate 9600 ID: 64 Stop Monitoring

BMS Monitoring BMS Parameter **Historical Record** BMS Datalog Communication

Date_Time	Status	Heater	Warning	protection	ErrorCode	CycleNum	Current_I	MAX_Curren	Total_Voltage	SOC	SOH	Temp_PCB	Temp_internal	Temp_MAX	Temp_01	Temp_02	Temp_03	Temp_04	Vol_Cell01	Vol_Cell02	Vol_Cell03
2023-10-20 15:45:06	Standby	off	0000	0000	0000	0	0.00	5	53.55	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:45:04	Standby	off	0000	0000	0000	0	0.00	5	53.55	99	100	34	34	35	35	35	35	33	3.346	3.349	3.348
2023-10-20 15:45:00	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:58	Standby	off	0000	0000	0000	0	0.00	5	53.55	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:56	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:54	Standby	off	0000	0000	0000	0	0.00	5	53.55	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:50	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:48	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:46	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:44	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	33	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:42	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348
2023-10-20 15:44:40	Standby	off	0000	0000	0000	0	0.00	5	53.56	99	100	34	34	35	35	35	35	33	3.347	3.349	3.348

Save Clear