

LiFePO4 cell voltage recording sheet

Fill in one sheet per battery, using as many cell rows as your battery has (4 for 12 V, 8 for 24 V, 16 for 48 V). Take the full charge readings in Step 1 and the disconnect readings in Step 3 of our troubleshooting guide.

Battery details

Battery serial number	
Battery label (e.g. Battery 1)	
Date and time at full charge	
Date and time at disconnect	
Comms working (yes / no)	
Battery controlling the charge (yes / no)	

Cell voltages

Cell	Full charge (V)	At disconnect (V)
Cell 1		
Cell 2		
Cell 3		
Cell 4		
Cell 5		
Cell 6		
Cell 7		
Cell 8		
Cell 9		
Cell 10		
Cell 11		
Cell 12		
Cell 13		
Cell 14		
Cell 15		
Cell 16		
Pack voltage (V)		
SOC %		
Highest cell (number and V)		
Lowest cell (number and V)		
Spread, highest minus lowest (mV)		
Charge or load current (A)		
Alarms showing		

Spread at full charge, a rough guide

Spread	What it means
Under 20 mV	Healthy. The SOK BMS stops balancing below this
20 to 150 mV	Out of balance. Normal while the balancer is working, keep an eye on it
Over 150 mV	Worry. Carry on to Steps 2 and 3

Notes

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Send your completed sheet, the battery serial number and photos or screenshots of the cell voltages to admin@sogenenergy.co.nz. Full guide: sogenenergy.co.nz/faq/lifepo4-battery-troubleshooting-high-cell-voltage-alarms-and-soc