

	16.66%	33.32%	49.98%	66.64%	83.30%	99.96%	ALM	RUN	Protect against fault states
1								or	Cell failure
2								or	NTC failure
3								or	Precharge failure
4								or	Short circuit fault
5								or	Charging MOS failure
6								or	Discharge MOS fault
7								or	Precharge failure
8								or	Total negative contact failure
9								or	Overvoltage protection of charging cells
10								or	Overall charging overvoltage protection
11								or	Charging overcurrent protection
12								or	Discharge cell undervoltage protection
13								or	Discharge overall undervoltage protection
14								or	Discharge overcurrent protection
15								or	Charging high temperature protection
16								or	Charging low temperature protection
17								or	High temperature protection for discharge
18								or	Discharge low temperature protection
19								or	MOS tube high temperature protection
20								or	Environmental low temperature protection
21								or	Ambient high temperature protection

The red ALM LED "On" means an "Alarm" (warning) or "Fault". Both ALM on and RUN on means multiple alarms/faults.

Is a "protection event" warning. The battery will recover when the cause is removed, e.g. external short circuit, or "Overall charging (pack) overvoltage protection.

Is a fault that could potentially be cleared during depot repair or a cell or pack undervoltage that could be recovered during depot repair.

Is a potential BMS or hardware failure.