

	BQ76PL455A	BQ76942	BQ76952	BQ77216	BQ79616	BQ75614	BQ77PL900
Released	Sept. 2016	Nov. 2020	Sept. 2020	Dec. 2020	Dec. 2020	NEW	June 2008
Number of Cells Supported	6-16	3-10	3-16	3-16	6-16	6-16	5-10
Evaluation Module Available	Yes	Yes	Yes	Yes	Yes	No	Yes

Req #	Requirement	BQ76PL455A	BQ76942	BQ76952	BQ77216	BQ79616	BQ75614	BQ77PL900
1	Work with 8S3P or 8S4P	X	X	X	X	X	X	X
2	Cell Balancing	X	X	X	O	X	X	X
3	Over Current Charge Protection	O	X	X	O	O	O	O
4	Over Current Discharge Protection	O	X	X	O	O	O	O
5	Over Temperature Protection	X	X	X	X	X	X	X
6	Over Voltage Protection	X	X	X	X	X	X	X
7	Operate without host Microcontroller	O	X (cell bal)	X (cell bal)	O	O	O	X
8	Short Circuit Protection	O	X	X	O	O	O	X
9	Open Circuit Detection	X	X	X	X	X	X	O
10	Temperature Sensing	X	X	X	X	X	X	X
11	Under Temperature Protection	X	X	X	X	X	X	X
12	Under Voltage Protection	X	X	X	X	X	X	X
13	i2c Connection to host Microcontroller	Fast UART	X	X	X	UART	UART	X
14	Operate with a "dead" Battery Pack							
15	Charge Power available through 8-pin Conn	Y	Y	Y	Y	Y	Y	Y
16	Monitoring of Charge Process (Fuel Gauging)	O	Coulomb Ct	Coulomb Ct	O	O	O	O
17	Operate with a Minimum of 3 Parallel Packs	Daisy Chain	1 per	1 per	1 per	1 per	1 per	1 per
18	Ability to Charge all 3 Packs Simultaneously	1 per	1 per	1 per	1 per	1 per	1 per	1 per
19	Discharge Path Control via Magnets							
20	Watchdog Pump Power Control	O	X	X	O			
21	Switched Discharge Path							
22	Interoperable with Existing LHE							
23	More LHE Specific Functions							
24	Ability to Turn Off the Pack							