





Module	"Extreme" version 12P	"Endurance" version 12P	"Extreme" version 8P	"Endurance" version 8P	Unit	Comment
Reference picture						
Application	Race and performance EV	Best power/range for EV	Race and performance EV	Best power/range for EV		
Cell brand and type	12x Molicel 21700-P45B	12x Samsung 21700-50E	8x Molicel 21700-P45B	8x Samsung 21700-50E		Other cell types on request
Capacity rated	54,0	58,8	36,0	39,2	Ah	At 0.2C and ideal situations
Capacity irl	51,3	57,0	34,2	38,0	Ah	realistic at 1C discharge / 0.5C charge
Size LxWxH	150 x 79 x 46	150 x 79 x 46	106 x 79 x 46	106 x 79 x 46	mm	based on full LxWxH incl. topcap
Weight	988	976	727	719	gram	incl. topcap & bolts excl busbar & bms
Voltage minimal (discharge cut-off)	2,5	2,5	2,5	2,5	V	Recommended 3,0V
Voltage nominal	3,60	3,60	3,60	3,60	V	
Voltage maximum	4,2	4,2	4,2	4,2	V	Recommended 4,1V
Specific energy density	187	210	169	190	Wh / kg	Based on realistic capacity
Specific energy density	342	380	324	360	Wh / l	Based on realistic capacity
Specific power density	1968	645	1783	576	W / kg	Based on peak power
Specific power density	3600	1167	3411	1089	W / l	Based on peak power
Max discharge current continuous until empty	300	115	200	75	A	Cell surface stays below 60°C*
Max discharge current 50% duty cycle until empty	420	175	280	115	A	Cell surface stays below 60°C*
Discharge spike current	540	175	360	115	A	< 10 sec, > 1min between peaks
Standard charge	1,0	0,5	1,0	0,5	C	CCCV 4.2V, 0.05C cutoff
Fast charge	3,0	1,0	3,0	1,0	C	CCCV 4.2V, 0.10C cutoff
Standard charging time	75	150	75	150	min	100% capacity @ 100mA cutoff
Fast charging time	35	75	35	80	min	100% capacity @ 100mA cutoff
Fast charging time	20	50	20	50	min	80% capacity

* Assuming coolant temperature of 20°C

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