

GEN 2 Lithium Block™ Module

Air-Cooled Lithium-Ion Battery Solution

Discharge Temp	-40°C ~ 60°C
Charge Temp	0°C ~ 60°C
Construction Material	Glass-Filled Fire Retardant ABS

Vmax	4.2 VDC
Vnom	3.6 VDC
Vmin	2.5 VDC



I/O Pinout			
1) V +	2) T5	3) T4	4) T3
5) V-	6) COM	7) T1	8) T2

Features

- Available in 5p-10p configurations
- Connectorized cell voltage and temperature monitoring
- Choose between Molicel P28A or M35A
- Cell Compliance per IEC62133
- Conductor Spacing per IEC60664

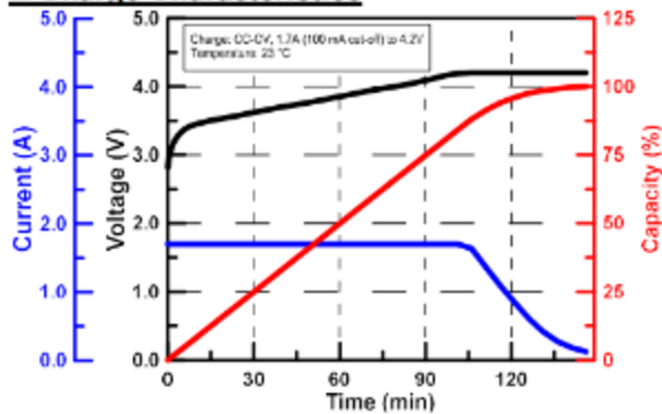
fSAE Compliant

- 50% cell temperature monitoring
- BMS voltage sense fusing integrated within PCB (250mA) [PN: 0ZCK0020FF2G]
- 3M 2216 Thermal contact material ~1mm
- Temperature sensing on cell
- Maximum unfused lead length <10mm
- Overcurrent protection on Cathode and Anode via ultrasonic wire bonding

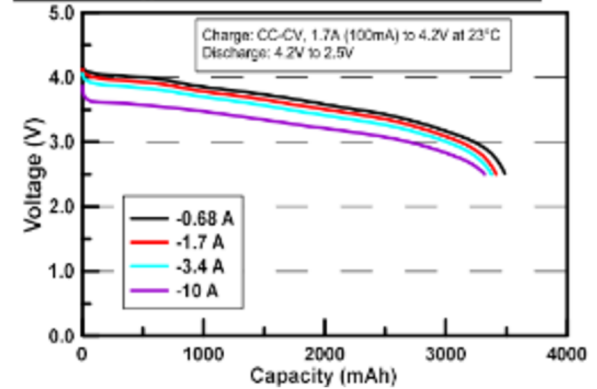
With MoliceL M35A

	5P	6p	7p	8p	9p	10p
Energy Capacity [Wh]	63	75	88	100	113	125
Charge Capacity [Ah]	17.5	21.0	24.5	28.0	31.5	35.0
Vmax [V]	4.2	4.2	4.2	4.2	4.2	4.2
Vnom [V]	3.6	3.6	3.6	3.6	3.6	3.6
Vmin [V]	2.5	2.5	2.5	2.5	2.5	2.5
Standard Charge Current [A]	8.5	10.2	11.9	13.6	15.3	17
Max Charge Current [A]	8.5	10.2	11.9	13.6	15.3	17
Max Discharge Current [A]	50	60	70	80	90	100
Approximate Length [mm]	119	138	157	177	196	215
Approximate Mass [g]	317	374	431	487	544	601

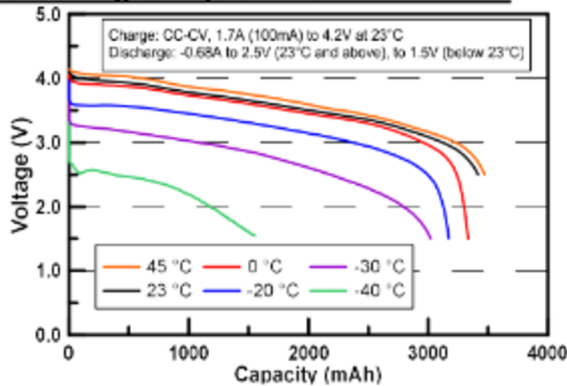
Charge Characteristics



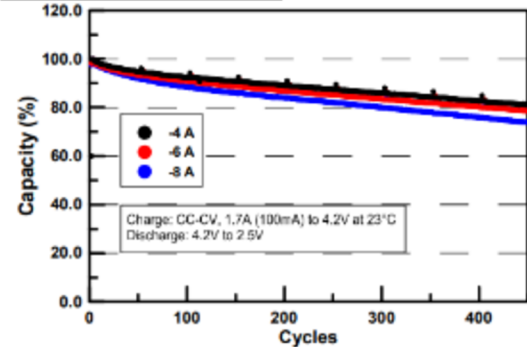
Discharge Rate Characteristics at 23 °C



Discharge Temperature Characteristics



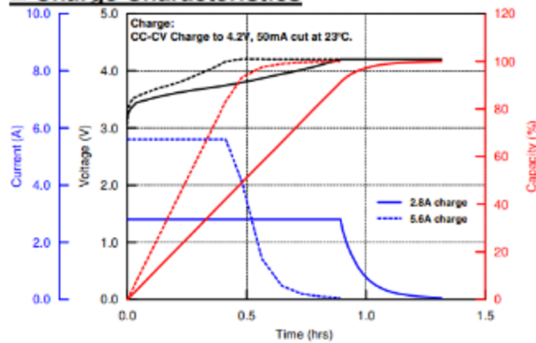
Cycle Characteristics



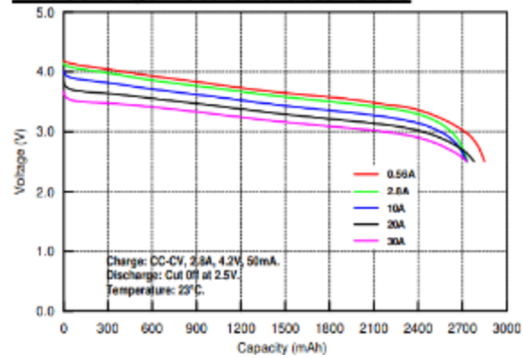
With MoliceL P28A

	5P	6p	7p	8p	9p	10p
Energy Capacity [Wh]	52	62	72	82	93	103
Charge Capacity [Ah]	14	16.8	19.6	22.4	25.2	28
Vmax [V]	4.2	4.2	4.2	4.2	4.2	4.2
Vnom [V]	3.6	3.6	3.6	3.6	3.6	3.6
Vmin [V]	2.5	2.5	2.5	2.5	2.5	2.5
Standard Charge Current [A]	14	16.8	19.6	22.4	25.2	28
Max Charge Current [A]	30	36	42	48	54	60
Max Discharge Current [A]	175	210	210	210	210	210
Approximate Length [mm]	119	138	157	177	196	215
Approximate Mass [g]	317	374	431	487	544	601

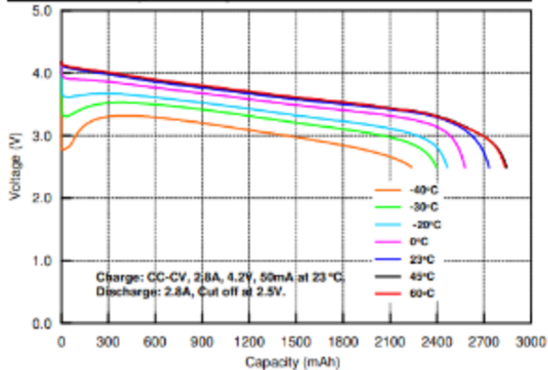
Charge Characteristics



Discharge Rate Characteristics



Discharge Temperature Characteristics



Cycle Characteristics

