

# Gen II Lithium Block™ Module

Air-Cooled Lithium-Ion Battery Solution

fSAE Compliant



<b>Discharge Temp</b>	-40°C ~ 60°C
<b>Charge Temp</b>	0°C ~ 60°C
<b>Construction Material</b>	Glass-Filled Fire Retardent ABS

<b>Vmax</b>	4.2 VDC
<b>Vnom</b>	3.6 VDC
<b>Vmin</b>	2.5 VDC



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

## Features

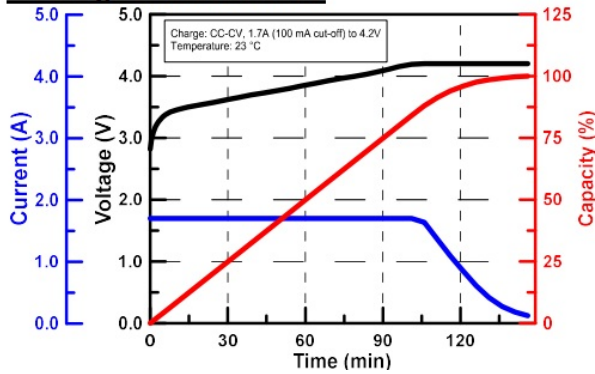
- Available in 5p-10p configurations
- 50% cell temperature monitoring
- Connectorized cell voltage and temperature monitoring
- Choose between Molicel P28A Power Cells or M35A Energy Cells
- Cell Compliance per IEC62133
- Conductor Spacing per IEC60664
- Resettable fuses on voltage sense circuit

**CIE SOLUTIONS**

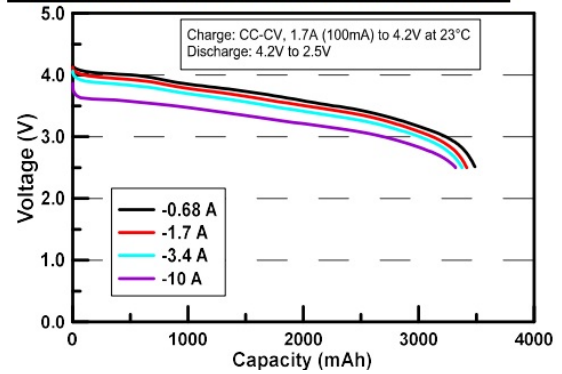
## With MoliceL M35A

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

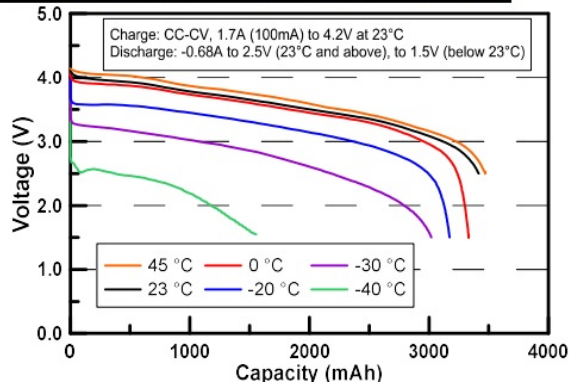
### Charge Characteristics



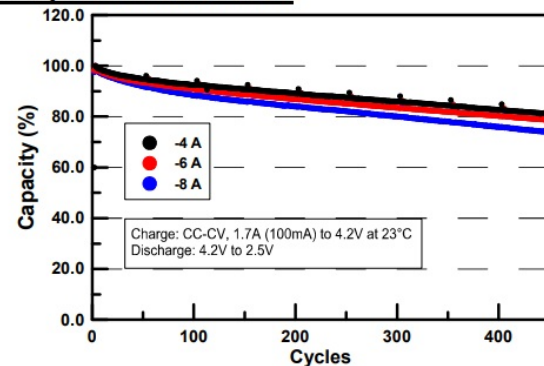
### Discharge Rate Characteristics at 23 °C



### Discharge Temperature Characteristics



### Cycle Characteristics

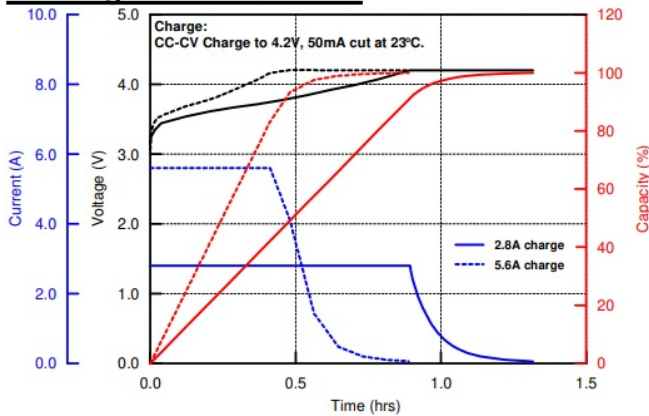


Note: All values are based upon nominal cell values provided by MoliceL. Actual module performance may differ.

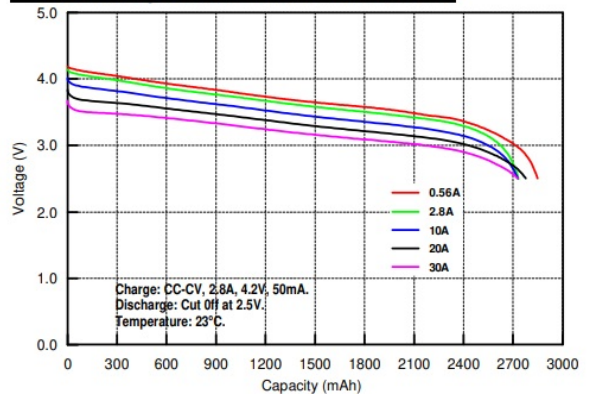
# With Molicel P28A

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

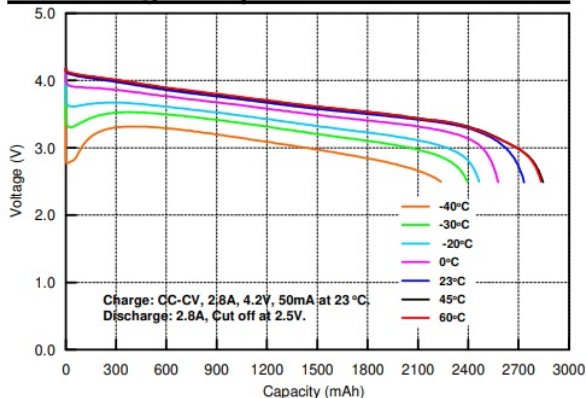
## Charge Characteristics



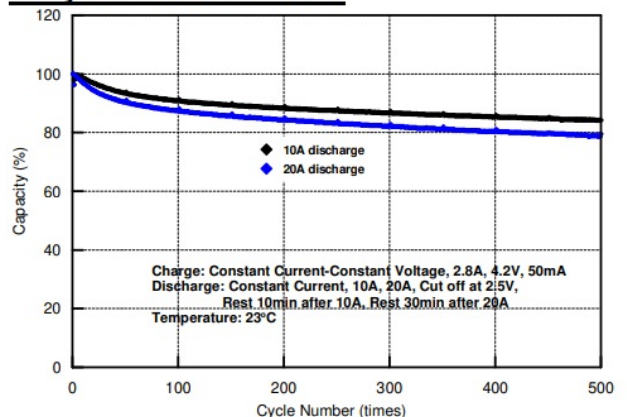
## Discharge Rate Characteristics



## Discharge Temperature Characteristics



## Cycle Characteristics



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