

# Lithium Block™ Module

Air-Cooled Lithium-Ion Battery Solution



- Available in 3p-10p configurations
- Option of Molicel M35A or Molicel P28A
- Integrated thermistor emulator for 100% cell temperature monitoring
- Module Compliance per UN38.3
- Cell Compliance per IEC62133

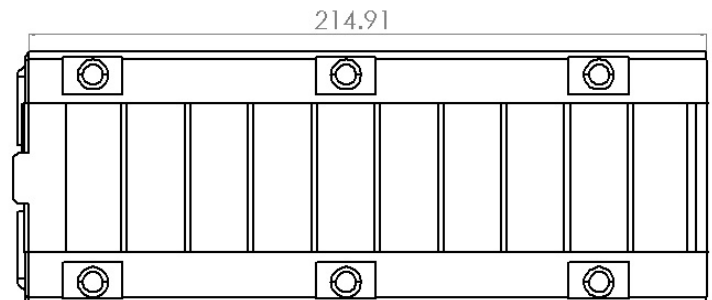
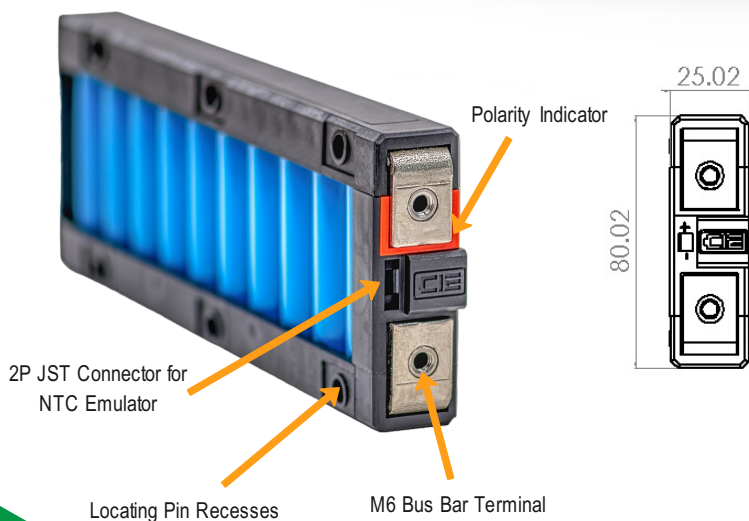
**Discharge Temperature Range** -40°C ~ 60°C

**Charge Temperature Range** 0°C ~ 60°C

**Construction Material** Glass-Filled Fire Retardant ABS

**Mounting Solution** Pins Included

**Cell Bonding** Ultrasonic wire bonding for comprehensive cell-level fusing



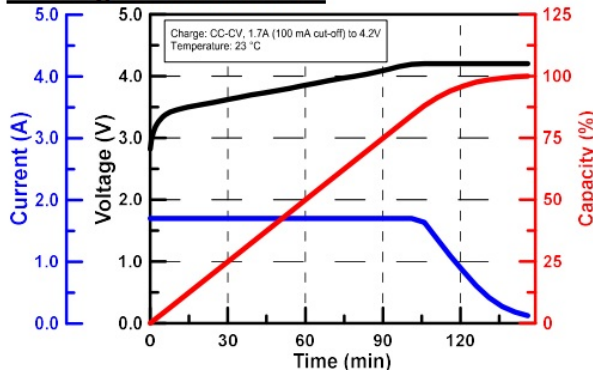
Note: Drawing above is for the 10p variation. Length will be contingent upon parallel configuration. See following pages for respective length.

**CIE SOLUTIONS**

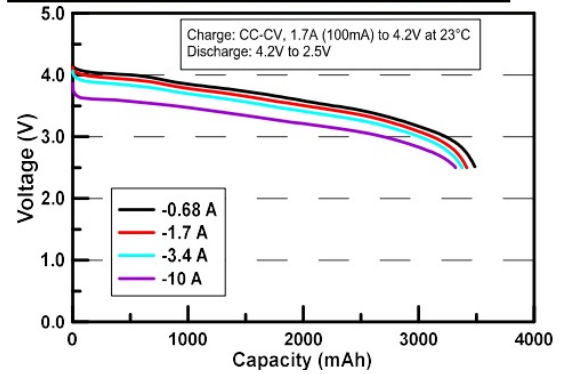
## With Molicel M35A

	3p	4p	5P	6p	7p	8p	9p	10p
<b>Energy Capacity [Wh]</b>	38	50	63	75	88	100	113	125
<b>Charge Capacity [Ah]</b>	10.4	13.8	17.3	20.7	24.2	27.6	31.1	34.5
<b>Vmax [V]</b>	4.2	4.2	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	3.6	3.6
<b>Vmin [V]</b>	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
<b>Standard Charge Current [A]</b>	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17
<b>Max Charge Current [A]</b>	5.1	6.8	8.5	10.2	11.9	13.6	15.3	17
<b>Max Discharge Current [A]</b>	30	40	50	60	70	80	90	100
<b>Approximate Length [mm]</b>	81	100	119	138	157	177	196	215
<b>Approximate Mass [g]</b>	203	260	317	374	431	487	544	601

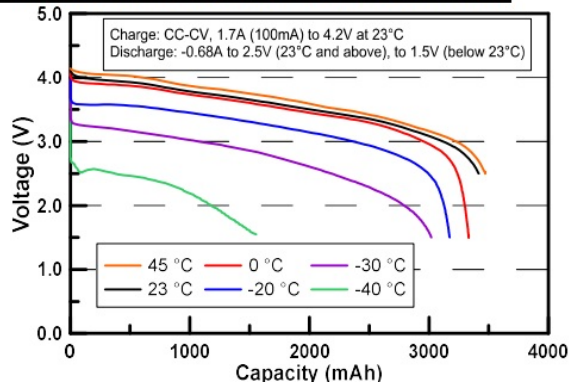
### Charge Characteristics



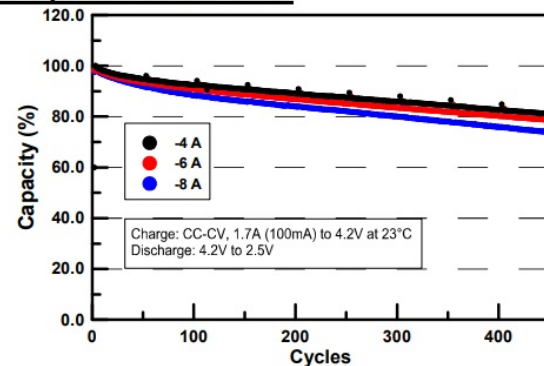
### Discharge Rate Characteristics at 23 °C



### Discharge Temperature Characteristics



### Cycle Characteristics

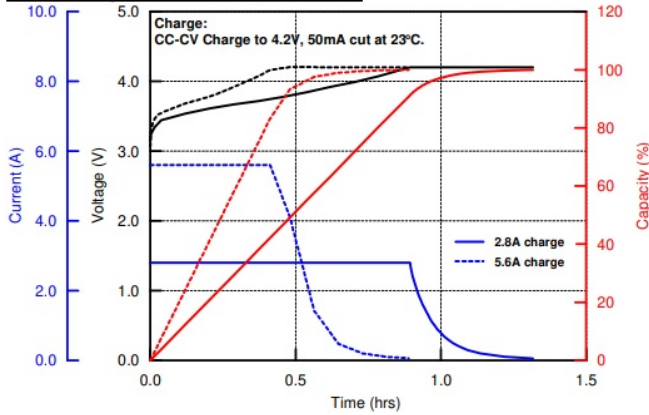




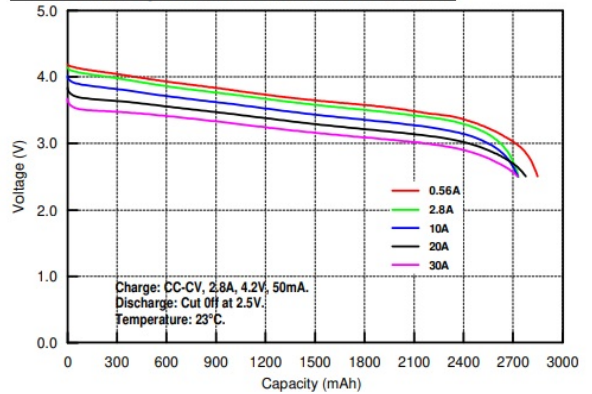
# With Molicel P28A

	3p	4p	5P	6p	7p	8p	9p	10p
<b>Energy Capacity [Wh]</b>	31	41	52	62	72	82	93	103
<b>Charge Capacity [Ah]</b>	8.4	11.2	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	4.2	4.2
<b>Vnom [V]</b>	3.6	3.6	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	2.5	2.5
<b>Standard Charge Current [A]</b>	8.4	11.2	14	16.8	19.6	22.4	25.2	28
<b>Max Charge Current [A]</b>	18	24	30	36	42	48	54	60
<b>Max Discharge Current [A]</b>	105	140	175	210	210	210	210	210
<b>Approximate Length [mm]</b>	81	100	119	138	157	177	196	215
<b>Approximate Mass [g]</b>	203	260	317	374	431	487	544	601

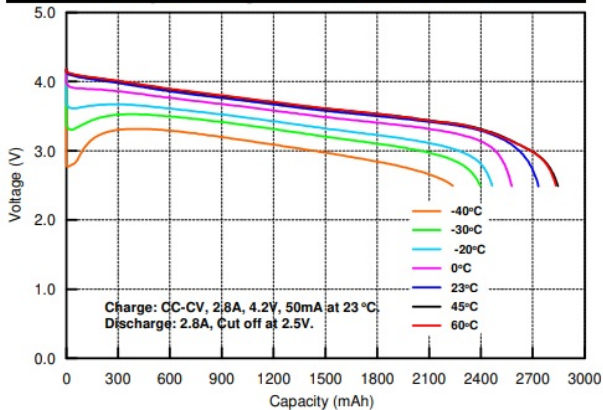
## Charge Characteristics



## Discharge Rate Characteristics



## Discharge Temperature Characteristics



## Cycle Characteristics

