



FARASIS ENERGY

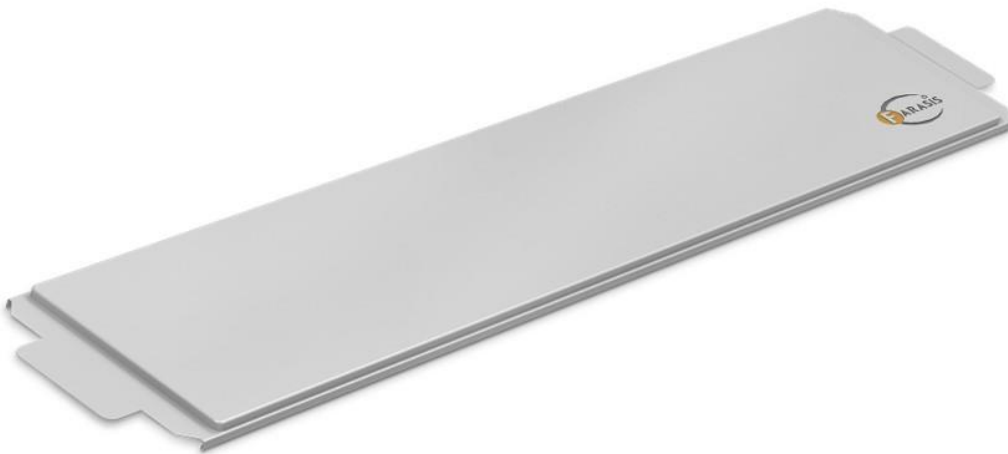
Product Portfolio

A Global Pioneer in Batteries Powering
Clean and Sustainable Energy



FARASIS ENERGY

Cell Portfolio



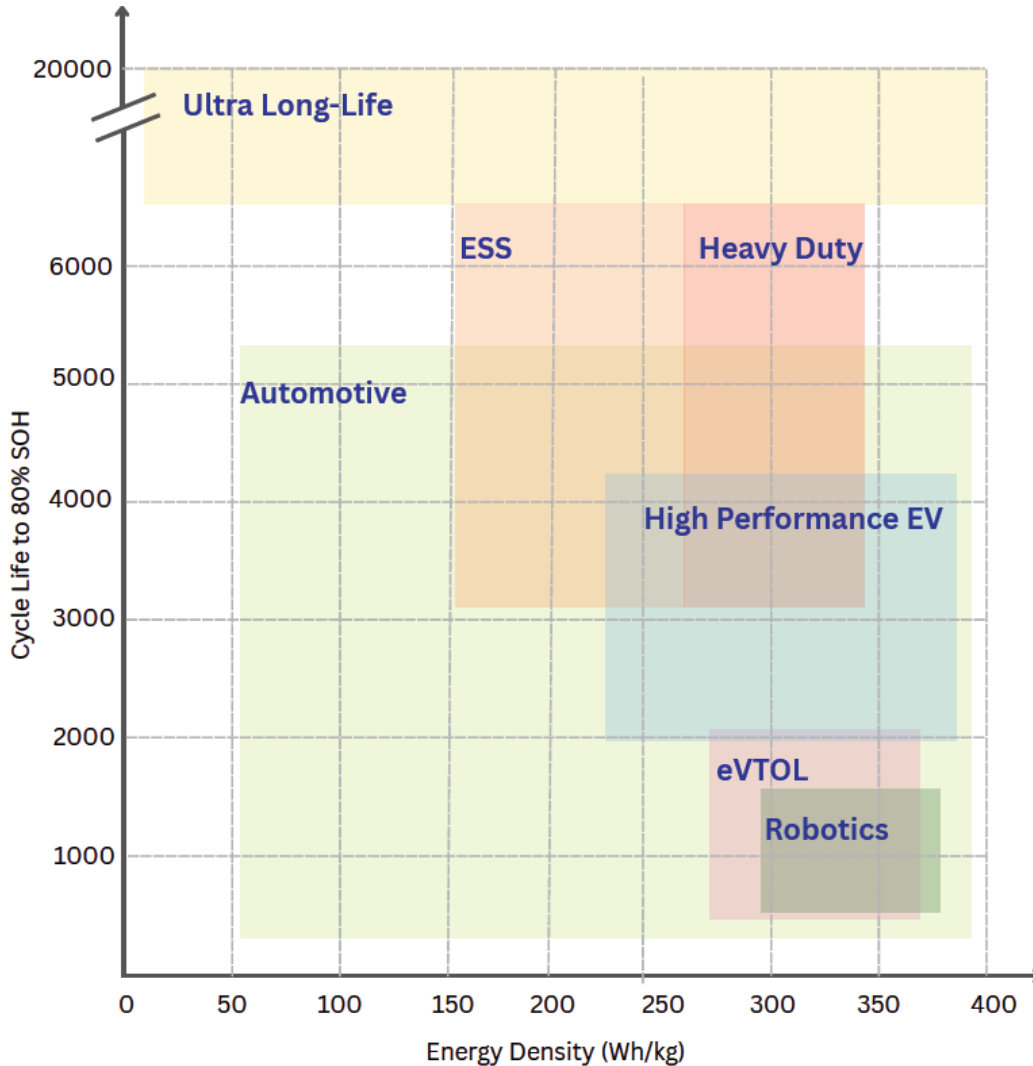


CHEMISTRIES

- **LFP (Lithium Iron Phosphate)**
- **LMFP + NCM (Hybrid)**
- **NCM (Lithium Nickel Manganese Cobalt Oxide)**
- **Na-ion (Sodium-ion)**

CELL MATRIX

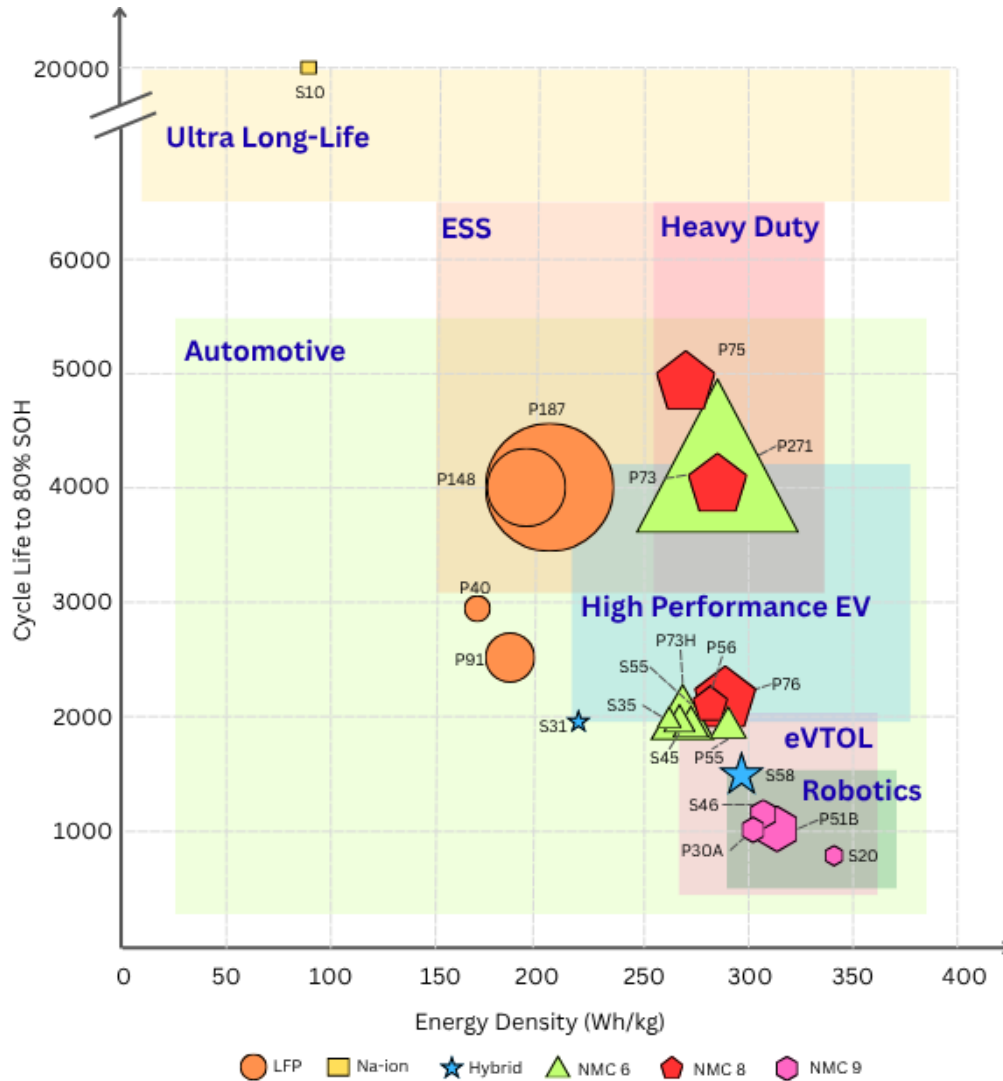
The coloured regions indicate typical application domains derived from our portfolio characteristics. High-cycle LFP cells define the **ESS segment**, offering long service life and stability. NCM6 and NCM8 platforms support **mainstream automotive** and **heavy-duty mobility** with a balanced **energy-to-lifetime** ratio.



High-energy NCM9 cells extend into **high-performance EV** and **eVTOL** applications where energy density is critical. Sodium-ion technology occupies the **ultra long life** segment for grid and backup storage.

CELL MATRIX

The **Farasis Cell Matrix** visualizes our complete cell portfolio across **energy density** and **cycle life**, enabling a fast and transparent comparison of technologies and applications. The horizontal axis represents **energy density (Wh/kg)** and the vertical axis shows **cycle life to 80% SOH**, illustrating the performance trade-off between **energy** and **durability**.



Each **bubble** corresponds to an individual **cell model**, and the bubble size reflects the cell capacity in ampere-hours (Ah) from smaller format cells to high-capacity pouch platforms.



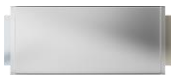
LFP CELL PORTFOLIO

Cells:

- **P187**



- **P148**



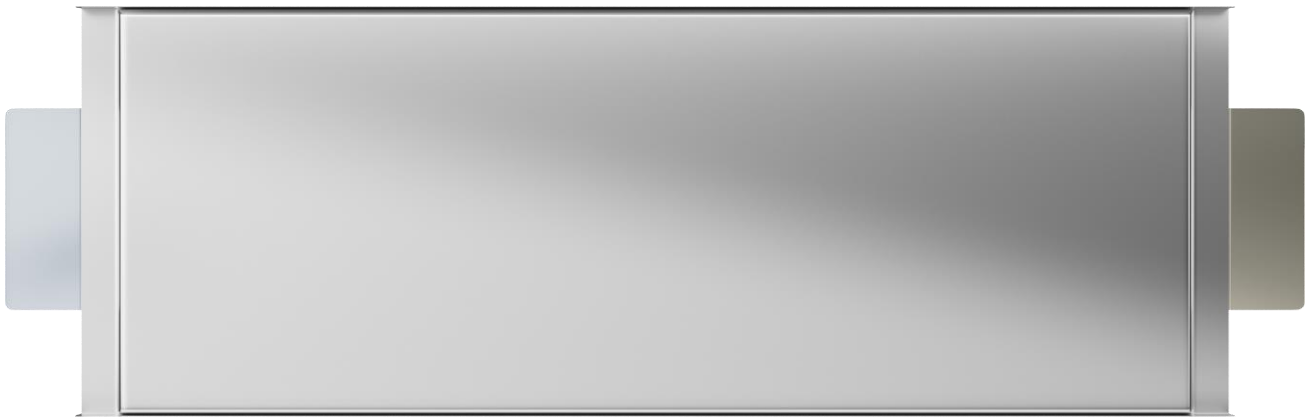
- **P91**






- **P40**



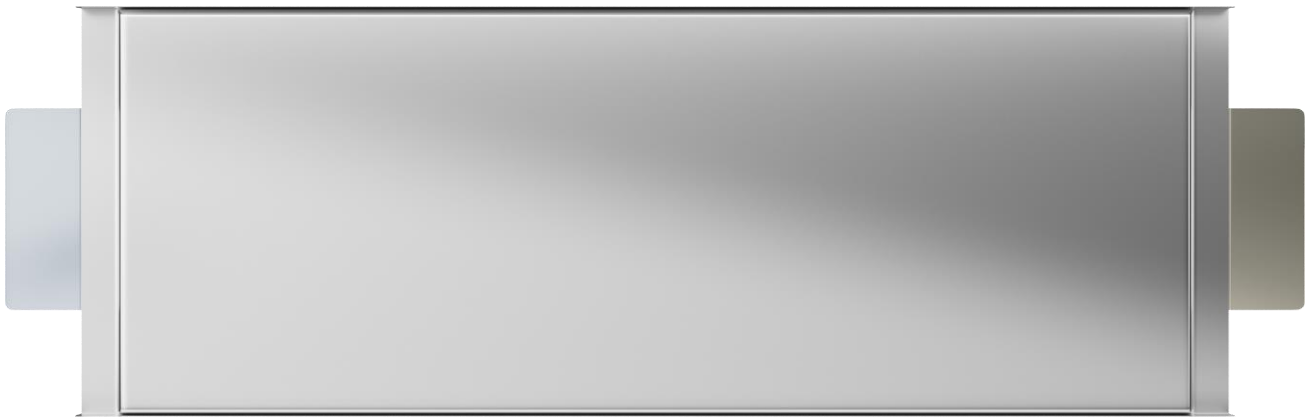
P187






FEATURES

DIMENSIONS (L*W*H)	598 x 200 x 11.8 mm	CHARGE TIME (10-80% SOC)	39 minutes
CHEMISTRY (CATHODE)	LFP	CELL WEIGHT	3040 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 4000 cycles
VOLTAGE RANGE	2.5-3.65 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	199 Wh/kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	188.5 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.21 V

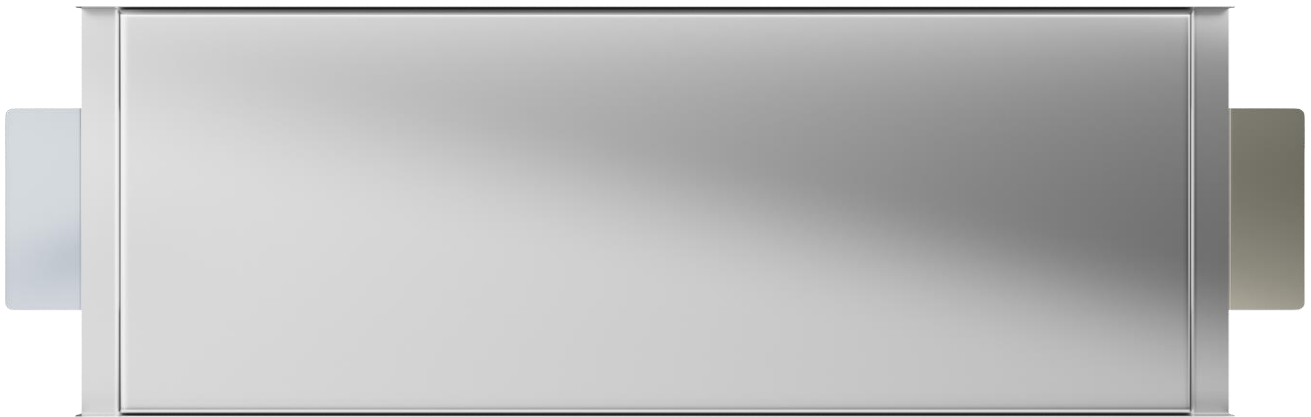
P148






FEATURES

DIMENSIONS (L*W*H)	598 x 200 x 9.4 mm	CHARGE TIME (10-80% SOC)	30 minutes
CHEMISTRY (CATHODE)	LFP	CELL WEIGHT	2450 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 4000 cycles
VOLTAGE RANGE	2.5-3.65 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	194 Wh/kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	148.1 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.21 V

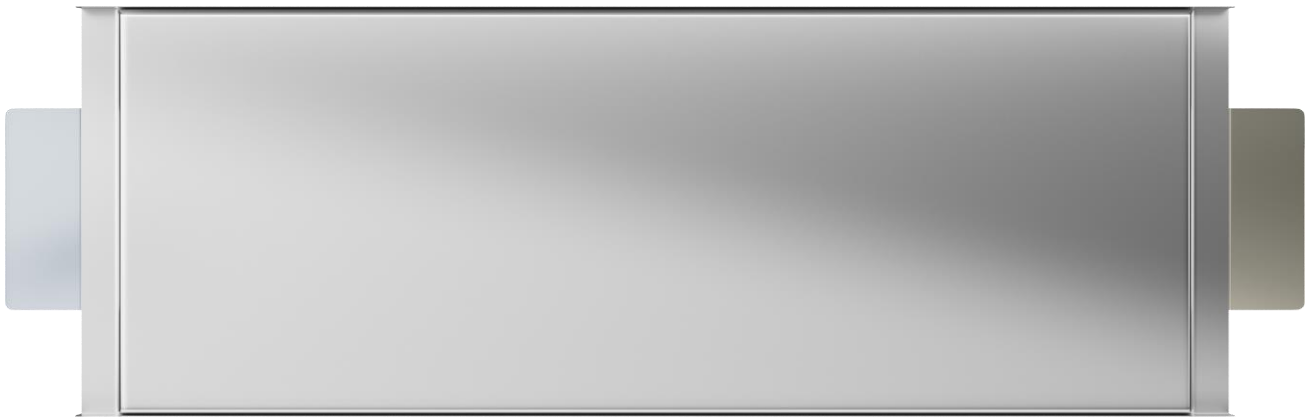
P91






FEATURES

DIMENSIONS (L*W*H)	497 x 165 x 8.7 mm	CHARGE TIME (10-80% SOC)	33 minutes
CHEMISTRY (CATHODE)	LFP	CELL WEIGHT	1515 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2500 cycles
VOLTAGE RANGE	2.5-3.65 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	193 Wh/kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	91.3 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.15 V

P40



FEATURES

DIMENSIONS (L*W*H)	316 x 103 x 10.6 mm	CHARGE TIME (10-80% SOC)	12 minutes
CHEMISTRY (CATHODE)	LFP	CELL WEIGHT	715 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 3000 cycles
VOLTAGE RANGE	2.5-3.65 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	12C
ENERGY DENSITY (C/3; 25 °C)	185 Wh/kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	40 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.2 V



HYBRID CELL PORTFOLIO

Cells:

- **S31**





- **S58**



S31




FEATURES

DIMENSIONS (L*W*H)	231 x 161 x 10.1 mm	CHARGE TIME (10-80% SOC)	56 minutes
CHEMISTRY (CATHODE)	NCM 6 + LMFP	CELL WEIGHT	498 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2000 cycles
VOLTAGE RANGE	2.5-4.3 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	231 Wh/kg	APPLICATION	 
CAPACITY (C/3; 25 °C)	31 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.68 V

S58













































FEATURES

DIMENSIONS (L*W*H)	231 x 161 x 8.3 mm	CHARGE TIME (10-80% SOC)	30 minutes
CHEMISTRY (CATHODE)	NCM 6 + LMFP	CELL WEIGHT	711 ± 15 g
CHEMISTRY (ANODE)	Si-Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 1500 cycles
VOLTAGE RANGE	2.5-4.35V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	10C
ENERGY DENSITY (C/3; 25 °C)	293 Wh/kg	APPLICATION	
CAPACITY (C/3; 25 °C)	58 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.57



NCM Cell Portfolio



Cells:

- **S35**   
 - **S45**   
 - **S55**   
 - **P55**    
 - **P271**    
 - **P73H**   
 - **P56**  
 - **P73**    
 - **P76**    
- **P75**   
 - **S46**   
 - **S20**  
 - **P51B**  
 - **P30A**  

S35





FEATURES

DIMENSIONS (L*W*H)	161 x 231 x 6.5 mm	CHARGE TIME (10-80% SOC)	45 minutes
CHEMISTRY (CATHODE)	NCM 6	CELL WEIGHT	498 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2000 cycles
VOLTAGE RANGE	2.75-4.35 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	266 Wh/kg	APPLICATION	 
CAPACITY (C/3; 25 °C)	35 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.73 V

S45





FEATURES

DIMENSIONS (L*W*H)	161 x 231 x 7.8 mm	CHARGE TIME (10-80% SOC)	45 minutes
CHEMISTRY (CATHODE)	NCM 6	CELL WEIGHT	633 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2000 cycles
VOLTAGE RANGE	2.75-4.35 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	270 Wh/kg	APPLICATION	 
CAPACITY (C/3; 25 °C)	45.2 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.73 V

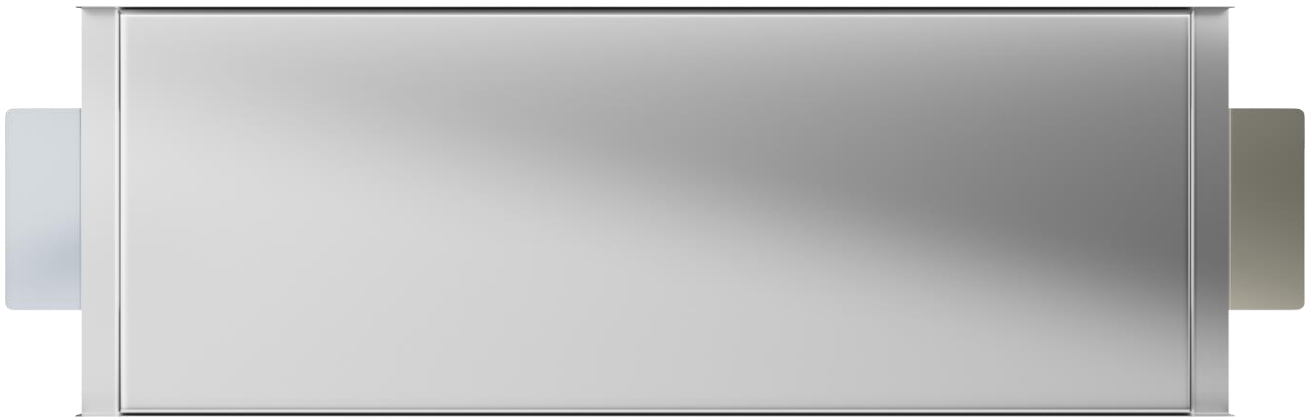
S55






FEATURES

DIMENSIONS (L*W*H)	231 x 161 x 9.7 mm	CHARGE TIME (10-80% SOC)	45 minutes
CHEMISTRY (CATHODE)	NCM 6	CELL WEIGHT	760 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2000 cycles
VOLTAGE RANGE	2.75-4.35 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	270 Wh/kg	APPLICATION	 
CAPACITY (C/3; 25 °C)	55 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.73 V

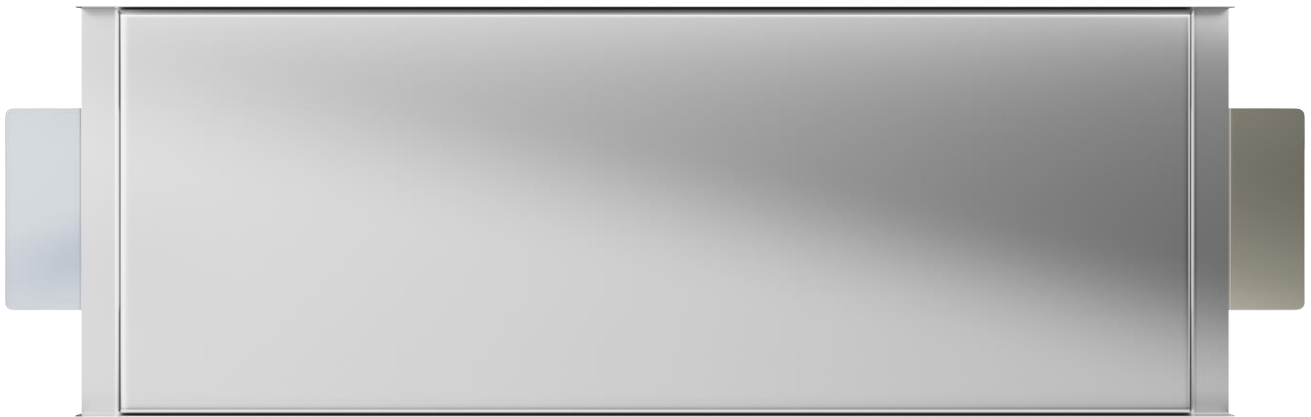
P55






FEATURES

DIMENSIONS (L*W*H)	316 x 103 x 10.6 mm	CHARGE TIME (10-80% SOC)	45 minutes
CHEMISTRY (CATHODE)	NCM 6	CELL WEIGHT	760 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2000 cycles
VOLTAGE RANGE	2.75-4.4 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	6.5C
ENERGY DENSITY (C/3; 25 °C)	282 Wh/kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	57.3 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.74 V

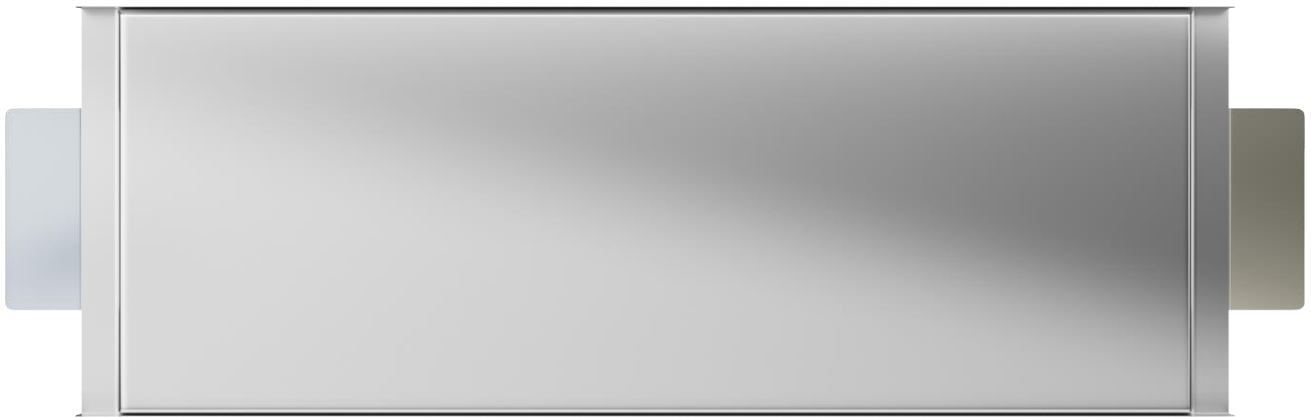
P271





FEATURES

DIMENSIONS (L*W*H)	487 x 166 x 19.6 mm	CHARGE TIME (10-80% SOC)	38 minutes
CHEMISTRY (CATHODE)	NCM 6	CELL WEIGHT	3610 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 4000 cycles
VOLTAGE RANGE	2.8-4.35 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	281.4 Wh/Kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	270.8 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.75 V

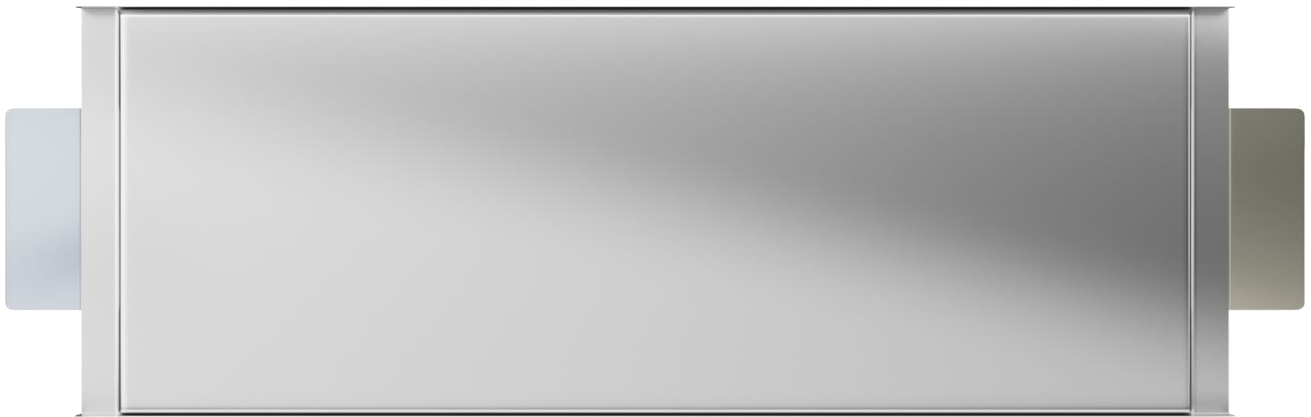
P73H




FEATURES

DIMENSIONS (L*W*H)	542 x 100 x 8.21 mm	CHARGE TIME (10-80% SOC)	20 minutes
CHEMISTRY (CATHODE)	NCM 6	CELL WEIGHT	1041 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	2000 cycles
VOLTAGE RANGE	2.8-4.35 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	8C
ENERGY DENSITY (C/3; 25 °C)	268.7 Wh/kg	APPLICATION	 
CAPACITY (C/3; 25 °C)	73.5 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.65 V

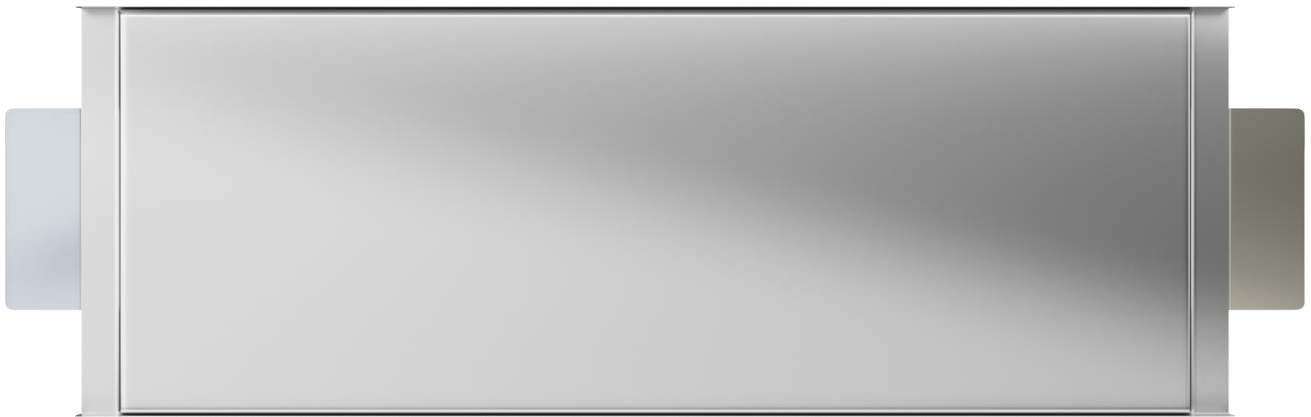
P56






FEATURES

DIMENSIONS (L*W*H)	326 x 79 x 13.9 mm	CHARGE TIME (10-80% SOC)	19.5 minutes
CHEMISTRY (CATHODE)	NCM 8	CELL WEIGHT	765 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2000 cycles
VOLTAGE RANGE	2.75-4.25V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	275 Wh/kg	APPLICATION	
CAPACITY (C/3; 25 °C)	56.4 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.68 V

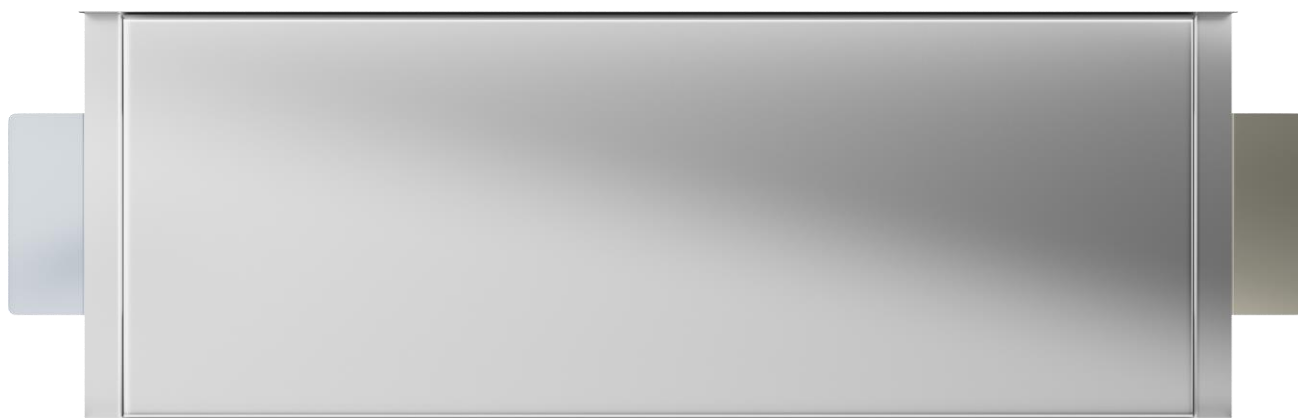
P73






FEATURES

DIMENSIONS (L*W*H)	294 x 104 x 14.2 mm	CHARGE TIME (10-80% SOC)	30 minutes
CHEMISTRY (CATHODE)	NCM 8	CELL WEIGHT	941 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 4000 cycles
VOLTAGE RANGE	2.75-4.2 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	5C
ENERGY DENSITY (C/3; 25 °C)	283 Wh/kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	73 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.65 V

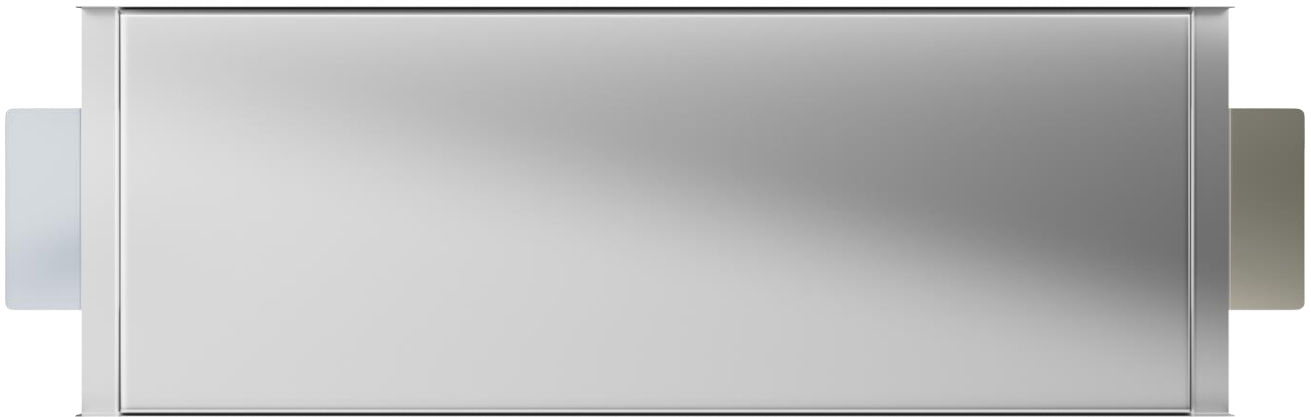
P76





FEATURES

DIMENSIONS (L*W*H)	294.4 x 105.5 x 14.45 mm	CHARGE TIME (10-80% SOC)	45 minutes
CHEMISTRY (CATHODE)	NCM 8	CELL WEIGHT	971.5 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 2000 cycles
VOLTAGE RANGE	2.75-4.2 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	3.7C
ENERGY DENSITY (C/3; 25 °C)	284 Wh/kg	APPLICATION	  
CAPACITY (C/3; 25 °C)	76.3 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.65 V

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FEATURES

DIMENSIONS (L*W*H)	542 x 102 x 8.2 mm	CHARGE TIME (10-80% SOC)	18 minutes
CHEMISTRY (CATHODE)	NCM 8	CELL WEIGHT	1030 ± 15 g
CHEMISTRY (ANODE)	Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 5000 cycles
VOLTAGE RANGE	2.8-4.2 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	8C
ENERGY DENSITY (C/3; 25 °C)	267 Wh/kg	APPLICATION	 
CAPACITY (C/3; 25 °C)	74.9 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.68 V

S46




FEATURES

DIMENSIONS (L*W*H)	231 x 161 x 6.1 mm	CHARGE TIME (10-80% SOC)	20 minutes
CHEMISTRY (CATHODE)	NCM 9	CELL WEIGHT	525 ± 15 g
CHEMISTRY (ANODE)	Si-Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 1200 cycles
VOLTAGE RANGE	2.5-4.2 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	10C
ENERGY DENSITY (C/3; 25 °C)	311 Wh/kg	APPLICATION	 
CAPACITY (C/3; 25 °C)	45.8 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.55 V

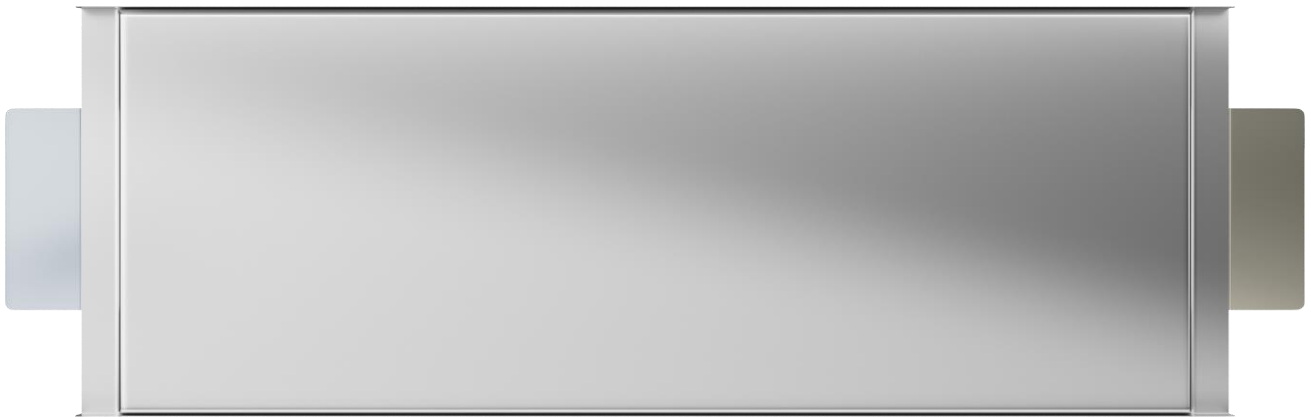
S20




FEATURES

DIMENSIONS (L*W*H)	160 x 76.5 x 8.9/5.2 mm	CHARGE TIME (10-80% SOC)	35 minutes
CHEMISTRY (CATHODE)	NCM 9	CELL WEIGHT	204 ± 15 g
CHEMISTRY (ANODE)	Si-Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 800 cycles
VOLTAGE RANGE	2.0-4.2 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	10C
ENERGY DENSITY (C/3; 25 °C)	340 Wh/kg	APPLICATION	
CAPACITY (C/3; 25 °C)	20.4 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.43 V

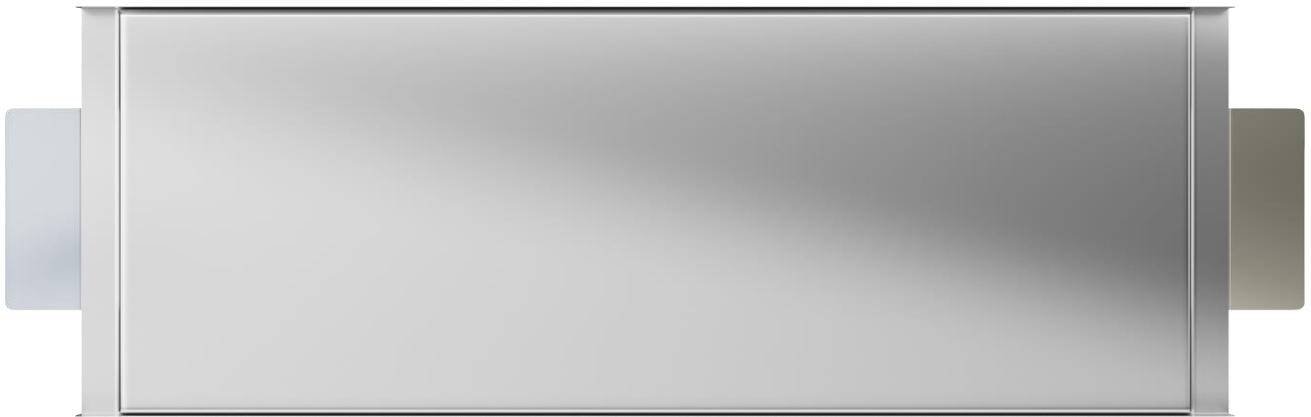
P51B




FEATURES

DIMENSIONS (L*W*H)	326 x 79 x 10.3 mm	CHARGE TIME (10-80% SOC)	< 15 minutes
CHEMISTRY (CATHODE)	NCM 9	CELL WEIGHT	573 ± 15 g
CHEMISTRY (ANODE)	Si-Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 1000 cycles
VOLTAGE RANGE	2.5-4.2 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	8C
ENERGY DENSITY (C/3; 25 °C)	318 Wh/kg	APPLICATION	
CAPACITY (C/3; 25 °C)	51.3 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.65 V

P30A



FEATURES

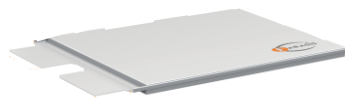
DIMENSIONS (L*W*H)	326 x 79 x 6.5 mm	CHARGE TIME (10-80% SOC)	20 minutes
CHEMISTRY (CATHODE)	NCM 9	CELL WEIGHT	364 ± 15 g
CHEMISTRY (ANODE)	Si-Graphite	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 1000 cycles
VOLTAGE RANGE	2.5-4.2 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	10C
ENERGY DENSITY (C/3; 25 °C)	306 Wh/kg	APPLICATION	
CAPACITY (C/3; 25 °C)	30.9 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	3.50 V



Na-ion Cell Portfolio

Cells:


- **S10**



S10



FEATURES

DIMENSIONS (L*W*H)	161 x 231 x 5.5 mm	CHARGE TIME (10-80% SOC)	< 14 minutes
CHEMISTRY (CATHODE)	Na-ion	CELL WEIGHT	355 ± 15 g
CHEMISTRY (ANODE)	Hard Carbon	STD. CYCLE LIFE TO 80% C/3-C/3; 90% DOD; 25 °C	> 20 000 cycles
VOLTAGE RANGE	1.5-3.4 V	DISCHARGE PULSE 10s 25 °C; 50% SoC (C-rate)	60C
ENERGY DENSITY (C/3; 25 °C)	80.2 Wh/kg	APPLICATION	
CAPACITY (C/3; 25 °C)	10 Ah	NOMINAL VOLTAGE (C/3; 25 °C)	2.85 V



A Global Pioneer in Batteries Powering Clean and Sustainable Energy

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