

PRODUCT CATALOG





ASPİLSAN Enerji Sanayi ve Ticaret A.Ş. was founded in Kayseri Organized Industrial Zone in 1981.

ASPİLSAN Enerji; like ASELSAN, ROKETSAN, Turkish Aerospace, HAVELSAN and İŞBİR Elektrik, is a company of Turkish Armed Forces Foundation (TAFF) and 98.32% of its shares are owned by TAFF.

ASPİLSAN Enerji started the production of radio batteries in 1985, and the production of aircraft and helicopter batteries in Ni-Cd chemistry in 1993. Until 1996, ASPİLSAN Enerji produced Ni-Cd rechargeable cells with Varta license.

The main activities and solutions of ASPİLSAN Enerji are;

- INR18650 Lithium-Ion Rechargeable Cylindrical Battery Production
- Different Chemistry Cells' Sale
- Radio and Weapon Battery Systems
- Telecommunication Batteries
- Medical Battery Systems
- Mini ESS and Energy Storage Systems
- Aviation Battery Systems and Battery Batteries (Lithium-Ion and Nickel Cadmium)
- Marine Battery Systems
- Railway Battery Systems
- Robotics and Autonomous Battery Systems
- Engineering and Test Services
- Card Typesetting Service

ASPİLSAN Enerji, the first and only company in Türkiye to produce aircraft/helicopter battery systems in Ni-Cd chemistry, is also the largest battery manufacturer in the country.

The four R&D centers are located in Kayseri, Ankara, and Istanbul. Battery Systems R&D Center in Kayseri; Electronic R&D Center in Ankara; Cell Design and Development R&D Center in Ankara; and Fuel Cells and Hydrogen R&D Center in Istanbul R&D Center.

ASPİLSAN Enerji offers all our solutions and services with the following quality management certifications;

- IRIS ISO 22163: International Railway Industry Standard
- AQAP 2110: NATO Quality Assurance Requirement for Design,

Development, and Production

- ISO 9001:2015: International Organization for Standardization's 9001 Standard for Quality Management Systems
- ISO 14001: Environmental Management Systems
- ISO 45001: Occupational Health and Safety Management

ASPİLSAN Enerji has started mass production of its Li-Ion Rechargeable Cylindrical Cell ASPİLSAN INR18650A28 in June 2022 and it is the first company in Europe to conduct mass production of li-ion 18650 cells. The design, development and production of the cell is completely domestic and national. All intellectual and industrial property rights of the cell belong to ASPİLSAN Enerji.

The chemistry and composition of ASPİLSAN INR18650A28 is nickel-rich lithium-nickel-manganese-cobalt oxide. Its dimension is 18650; its capacity is 2800 mAh and its voltage is 3.65V. Compared to similar capacity cells of well-known certified brands, ASPİLSAN Enerji's lithium-ion 18650 cell has proved to have a higher discharge rate and the ability to function at lower temperatures.

The annual production capacity of the lithium-ion cell production plant is 220 MWh. The production line is capable of producing 21,600,000 cells per year. The plant infrastructure and production line are not designed and constructed solely to produce cells in NMC chemistry but also 18650 and 21700 lithium ion cells in NCA, LFP, LCO, LMO and LTO chemistries. The safety and performance certifications received for ASPİLSAN INR18650A28 cell are as follows;

- Undot38.3: Standard Containing Safety Test for International Air Transport
- IEC 62133-2: Standard Containing User Electronics Safety Testing
- IEC 61960-3: Standard Containing User Electronics Performance Testing
- UL 1642: Standard for User Electronics Safety Testing (US Market)

The lithium-ion cells produced by ASPİLSAN Enerji can be used in radio systems, jammers, robotic and weapon systems, power tools, medical batteries, hybrid vehicles, smart textile product batteries, electronic bikes and scooters, forklifts, UPS systems, and energy storage systems. In addition to the existing product portfolio, ASPİLSAN Enerji designs and develops project-based products to meet customers' needs.



ASPİLSAN Enerji A.Ş.
is a Turkish Armed Forces Foundation company.

Türkiye and Europe

FIRST 18650 CYLINDRICAL LI-ION BATTERY

PRODUCTION FACILITY



***Safe
Energy***

Lithium Ion Rechargeable Cell

The background is a solid dark blue. It features several large, overlapping, organic shapes in a lighter shade of blue. These shapes are fluid and non-geometric, resembling liquid droplets or flowing smoke. One large shape is in the upper right, another is in the lower right, and a third, more complex shape is in the lower left, partially overlapping the others.

ASPILSAN INR18650A28

Lithium Ion Rechargeable Cell

NSN Code: 6140270720730



Physical Characteristics

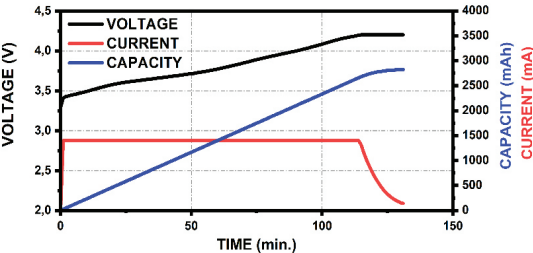


Discharge Capacity	Diameter	18.30 +0.10 / - 0.20 mm
	Height	65 ± 0.20 mm
	Weight	44.5 ± 0.7 g
	Nominal	2800mAh
Nominal Voltage	Minimum	2700mAh
Energy Density (Gravimetric – Volumetric)	3.65V	
Charge	230 Wh/kg - 605 Wh/L	
	Standard Charge Current	1400mA
	Max. Charge Current	4000mA (10°C - 50°C)
	End of Charge Voltage	4.2V
Discharge	Cut-off Current	140mA
	Standard Discharge Current	560mA
	Max. Continuous Discharge Current	14000mA
	Max. Continuous Discharge Current (SOC > 70% Cut-off temperature 80°C)	25000mA
	End Voltage	2.50V

	Initial AC Impedance (ACIR)	$\leq 20m\Omega$
Operating Temperature (Cut-off temperature 80°C)	Charge	0°C / 60°C
	Discharge	-30°C / 60°C
Storage Temperature Shipping State 30% SOC	Within 1 Month	-30°C / 60°C
	1-3 Month	-30°C / 45°C
	3-12 Month	-30°C / 25°C

Charge Characterisitcs

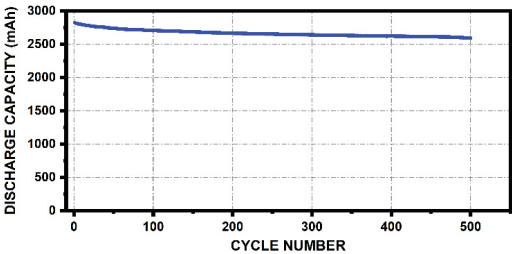
Charge: 0.5C CC-CV at 25°C (4.2V, cut-off 140mA)



Cycle Life

Charge: 0.5C CC-CV at 25°C (4.2V, cut-off 140mA)

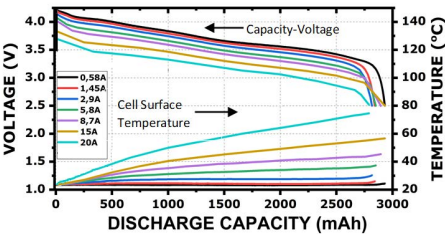
Discharge: 1C CC at 25°C (2.5V)



C-rate Dependency of Discharge Performance

Charge: 0.5C CC-CV at 25°C (4.2V, cut-off 140mA)

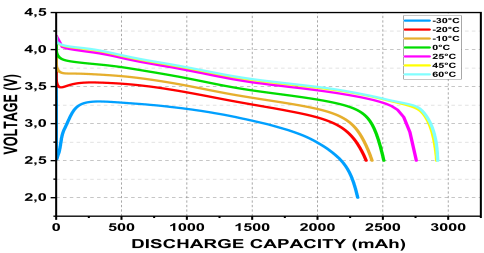
Discharge: CC at 25°C (2.5V)



Temperature Dependency of Discharge Performance

Charge: 0.5C CC-CV at 25°C (4.2V, cut-off 140mA)

Discharge: CC 0.2C for each temp. except -30°C (1C)



Weapon System Batteries



OMTAS

In this product
ASPILSAN
INR18650A28
lithium ion
rechargeable battery
has been used.



Product Information		
Place of Use	Medium-Range Anti-Tank Missile System (OMTAS)	
Stock Number	152-0001-0187	
Nominal Voltage	2 x 14,4 V	
Nominal Capacity	2 x 16,5 Ah	
Cycle Life	Charge	16,8V / 3,3A with charging current
	Discharge	>300 cycles at 16.5 A up to 10V

Stinger Battery



Product Information	
Place of Use	STINGER Low Level Air Defense System
Stock Number	152-0001-0038
Nominal Voltage	2x 20,4 V – 1 x 40,8 V
Nominal Capacity	1,7 Ah

TOW Battery



Product Information		
Place of Use	Anti-tank Missile System	
Stock Number	152-0001-0056	
Battery Output Voltage	(1-2) 24,0V - (3-4)50,4V- (5,6) 50,4V	
Nominal Capacity	(1-2) 4Ah - (3-4) 1,3Ah - (5,6) 1,3Ah	
Max Discharge Current	(1-2) 30A - (3-4) 10A - (5,6) 10A	
Charge (20±5°C)	Current	400 mA - 130 mA
	Time	15 hours - 8 hours
Cycle Life	Up to 1000 cycles	
Nominal Voltage	V- 2 x 50,4 V	
Capacity	Ah – 1,2 Ah	
Typical	4,6 Ah – 1,5 Ah	
Weight	9,8± 0,3 kg	
Width	393 mm	
Heigth	122 mm	
Length	181 mm	
Operating Temprature Range	Charge	-20 °C to +50°C
	Discharge	
	Recommended	0 °C to +30°C

System Batteries

The background is a solid dark blue. It features several large, overlapping, organic shapes in a lighter shade of blue. These shapes are fluid and non-geometric, resembling liquid droplets or soft, flowing forms. One large shape is in the upper right, another is in the middle left, and a third is in the lower right, all partially overlapping each other and the dark blue background.

BB-2590-U



Product Information	BB-2590 V2.0 Li-Ion Battery (Rev. A)
Type No	BB-2590
Stock Number	152-0001-0004
Nato Stock Number	6140-27-065-7485
Electrical Features	
Nominal Voltage	2 x 14,4V
Nominal Capacity	2 x 10,3 Ah 2 x 148,32Wh
Max Discharge Current	10A
End of Discharge Voltage	2 x 10V
Pulsed Discharge Current Dimensions (mm)	18A (5 second)
Mechanical Features	
Weight	Max. 1380
Dimensions	62 x 111 x 127 ± 2
Colour	Tan
Material	ABS
Environmental Features	
Charge Temperature	0°C - +45°C
Discharge Temperature	-20°C - +60°C
Storage Temperature	20°C (1 year)

BB-2590



Product Information		BB-2590 V2.0 Li-Ion Battery Pack	
Stock Number	152-0001-0005		
NATO Stock No	6140-27-065-7485		
Nominal Voltage	2 x 14,4V		
Nominal Capacity	2 x 10,3Ah 2 x 148,32Wh		
Casing Material	Polycarbonate-ABS		
Casing Color	Tan		
Standard Discharge Current	2,040A		
Max Discharge Current	10A		
Pulse Discharge Current	18A (5 Second)		
Standard Charge (20°C ±5°C)	For each pack charge with 16,8V / 5,1A until charge current fall below at 150mA (Max. 4h)		
Charge Indicator	5 segment LCD display		
Dimesions (mm)	62 x 111 x 127 ± 2		
Weight (g)	Max. 1380		
Protection	The battery is protected against over-charge, over-discharge, over-temperature and short-circuit.		
	Power Connector	BB-2590 Female Connector	
Output Contactcs	Data (SMBus V1.1)	4 pcs gold-plated surface contacts (2 pcs for BAT.A and 2 pcs for BAT.B)	
Self Discharge	Max. 15mAh/day		
Cycle Life	≥500 cycle (until %80 capacity)		
Storage Temperature	<20°C (1 year)		
Operating Temperature Range	Charge	10°C - + 45°C	
	Discharge	-20°C - + 60°C	

BB-2590

Usage Platform

- Military Systems
- Communication
- Robotics
- Sensors
- Jjammer Systems
- Air and Marine Systems (AUV, UUV), ECM, ESM etc.

In this product
ASPILSAN
INR18650A28
lithium ion
rechargeable battery
has been used.



Product Information	BB-2590 Li-ion Battery
Stock Number	152-0001-0006
Nato Stock Number	
Electrical Features	
Nominal Voltage	2 x 14,4V
Nominal Capacity	2 x 6,4Ah 2 x 92,16Wh
Max Discharge Current	6A
End Discharge Voltage	2 x 10V
Pulsed Discharge Current Dimensions	20A (about 13ms)
Mechanical Features	
Weight (g)	1460 ± 20
Dimensions (mm)	62 x 111 x 127 ± 2
Colour	Black
Material	ABS
Environmental Features	
Charge Temperature	0°C / +45°C
Discharge Temperature	-20°C / +60°C
Storage Temperature	20°C (1 year)

BB1919(2B)

Usage Platform

- Military Systems
- Communication
- Robotics
- Sensors
- Jammer Systems



Product Information	
Stock Number	152-0001-0057
Nato Stock Number	NA
Electrical Features	
Nominal Voltage	28,8V
Nominal Capacity	2 x 10,3 Ah
Max Discharge Current	2 x 9A
Standard Discharge Current	2 x 2,040A
Instant Discharge Current	18A (5 sec)
Mechanical Features	
Weight (g)	Maks. 2700
Dimensions (mm)	226 x 126 x 62 (± 3)
Colour	Tan
Material	ABS
Environmental Features	
Charge Temperature	0°C / +45°C
Discharge Temperature	-30°C / +60°C
Storage Temperature	20°C (1 year) , -5 - 25°C (1 and 3 month)

BB-2847/U



Technical Features		BB 2847 Li-Ion 7.2V 10.3Ah
Model Number		BBL-042
Stock Number		152-0001-0010
Electrical Features		
Nominal Voltage		7,2V
Nominal Capacity		10.3Ah
Standard Discharge Voltage		2,06A
Max Discharge Voltage		5A (20 °C ±5 °C'de) / (at 20 °C ±5 °C)
Standard Charge (at 20 °C ±5 °C)		Until the charging current drops to 150mA at 8.4V/2.7A. (Max. 5h)
Charge Indicator		LCD bar display with five stages (20 percent intervals). (The first bar on the indicator will flash to warn the user if the capacity number is less than 5%.)
Mechanical Features		
Dimensions		38,60 x 65,35 x 95,20 ± 0,30mm
Weight		330 ±10gr (approx)
Protection		Overcharge, discharge, high current, temperature, and short circuit protection are all built into the battery.
Output Terminal		MIL-B-18E. Flat contact and socket. Metal parts gold plated
Environmental Features		
Charge		Between +10°C and +45°C
Discharge		Between -20°C and +60°C
Charge Temperature		3h with 8,4V±0,05V/ 5000mA
Standby		1h - 4h
Discharge Temperature		Discharge with 2060mA until 5,0V 500 Cycle
Storage Temperature		Recommended , 21°C Permitted , 60°C (28 days maximum)
Capacity Loss		
Body Material		ABS
Body Colour		Khaki Green
Label Information		Name of the manufacturer, location of the manufacturer, polarity, serial number, charging information, warning/ warning information and indications, capacity indicator information, nominal capacity, and voltage information are all provided by the manufacturer.



BB-2847/U

Technical Features		BB 2847 Li-Ion 7.2V 7.5Ah
Model Number	BBL-067	
Stock Number	152-0001-0119	
Electrical Features		
Nominal Voltage	7,2V	
Nominal Capacity	7,5Ah	
Standard Discharge Voltage	1,5A	
Max Discharge Voltage	7A (20 °C ±5 °C'de)	
Standard Charge (at 20 °C ±5 °C)	Until the charging current drops to 150mA at 8.4V/2.7A. (Max. 5h)	
Charge Indicator	LCD bar display with five stages (20 percent intervals). (The first bar on the indicator will flash to warn the user if the capacity number is less than 5%.)	
Mechanical Features		
Dimensions	38,60 x 65,35 x 95,20 ± 0,30mm	
Weight	330 ±10gr (approx)	
Protection	Overcharge, discharge, high current, temperature, and short circuit protection are all built into the battery.	
Output Termianl	MIL-B-18E. Flat contact and socket. Metal parts gold plated	
Environmental Features		
Charge	Between +10°C and +45°C	
Discharge	Between -20°C and +60°C	
Charge Temperature	3h with 8,4V±0,05V/ 3700mA	
Standby	1h-4h	
Discharge Temperature	Discharge with 1500mA until 5,5V 500 Cycle	
Storage Temperature	Recommended , 21°C Permitted , 60°C (28 days maximum)	
Capacity Loss		
Body Material	ABS	
Body Colour	Khaki Green	
Label Information	Name of the manufacturer, location of the manufacturer, polarity, serial number, charging information, warning/warning information and indications, capacity indicator information, nominal capacity, and voltage information are all provided by the manufacturer.	

BT-6434

Li-mNO₂



Product Information		
Cell Chemistry		Lithium Manganese Dioxide (Li-mNO ₂)
Place of Use		Military and Civilian Handheld Radios, Remote Sensing Devices, Control Devices, Remote Control Devices, Emergency Radio PRC-434G
Stock Number		152 -0001-0058
Nominal Voltage		12 Volt
Max Discharge Current	Continuous	1500mA
	Pulsed	3500mA
Capacity	Nominal ð (1)	(100 ohm with continuous discharge)
	Nominal ð (2)	(150mA constant current and continuous discharge)
	Nominal ð (3)	4000 Pulsed (3/27 second pulses with 900 mA)
	Nominal ð (4)	2740 Pulsed (3/27 second pulses with 1200 mA)
Dimensions(mm) (±0,50)	Width	37,8
	Length	73.8
	Height	42
Weight (g)		163±2 (approx)

Cenker



Product Information		
Stock No		152-0001-0077
Nominal Voltage		14,4V
Operating Voltage Range		
Norminal Capacity		6,8Ah / 97,9Wh
Maximum Discharge Current		5A
Continuous Discharge Current		
Width x Length x Height		9,80mm x 175,65mm x 29,80mm
Weight		620 ± 30gr
Operating Temperature Range	Charge	0 °C / 45 °C
	Discharge	-20 °C / 60 °C
Standard Charge (23 ±2°C)		16.8V/3.4A, charging current
State of Charge Indicator		5 steps, 20%/ step
Protection		Overcharge, overdischarge, overcurrent, short circuit, high temperature, low temperature
Cycle Life		≥ 400 Cycles (Capacity ≥ 80%)
Case Material		PC (Polycarbonate)
Dimensions(mm (±0,50))	Width	93,6
	Lenght	181,5
	Height	35,8

Mini Thermal Weapon Scope



Product Name	Mini Thermal Weapon Scope Battery V3.0	Mini Thermal Weapon Scope Battery V2.0
Place of Use	Mini Thermal Weapon Scope	Mini Thermal Weapon Scope
Stock Number	152-0001-0050	152-0001-0049
Nominal Voltage	7,2 V	7,2 V
Nominal Capacity	2 Ah	1,62 Ah
Dimensions Width x Length x Height	39,5 x 53,5 x 21,3 ± 0,5mm	39,5 x 53,5 x 21,3 ± 0,5mm
Weight	80±5 g (approx)	80±5 g (approx)
Max Discharge Current	2 A	1,62 A

Mini Thermal Weapon Scope

3250 mAh



Product Information	Mini Thermal Handheld Binoculars 3250mAh	
Type No	BBL-014A	
Stock Number	152-0001-0052	
Cell Quantity	2	
Nominal Voltage	7,4V	
Nominal Capacity	3250mAh (discharge with 0.2CA in the temperature range of 0°C to + 40°C)	
Max Discharge Current	1,62 A	
Charge (20±5°C)	8.4V / 1.625A until the charging current drops to 65mA (max. 4h)	
Protection	The battery is protected against overcharge, overdischarge, overcurrent and short circuit.	
Cycle Life	At 20°C±5°C, - Charging: 8.4V / 1.625A until the charging current drops to 65mA, - Discharge: 1.625A up to 5V,	
Case Material	ABS - Black	
Width	39,5 mm	
Length	71 mm	
Height	21,3 ± 1 mm	
Weight	110 ± 5 g (approx)	
Operating Temperature Range	Charge	10°C to + 45°C
	Discharge	-20°C to + 60°C
Storage Temperature Range	-20°C to + 50°C	

Radio Batteries

The background is a solid dark blue. It features several large, overlapping, organic shapes in a lighter shade of blue. These shapes are fluid and non-geometric, resembling liquid droplets or soft, flowing forms. One large shape is in the upper right, another is in the lower left, and a third, more elongated shape is in the center. The shapes overlap each other and the dark blue background, creating a layered, abstract composition.

BB-4011 NI-MH ASP

Usage Platform

4011 - 4014 Series Handheld Radio



Product Information		4011 - 4014 Type Fast Charging Nickel-Metal Hydride Battery
Type		BB 4011 NI-MH ASP
Stock Number		152-0001-0013
Nato Stock Number		6140 27 005 8481
Nominal Voltage		7.2V
Nominal Capacity		2300mAh
Charging Current and Period		230mA / 15 Hours or 460mA / 8 Hours or 1200mA / 95 Minutes
Deşarj Akımı		Standard - 460mA
		Max. - 2300mA
Operating Temperature Range	Charge	Between 0°C and +45°C
	Discharge	Between -20°C and +50°C (%95 relative humidity)
Storage Temperature	Recomended	Between 0°C and +30°C
	Permitted	Between -20°C and +30°C
Colour		Black
Lifetime		500 cyles
Width		39,5 ± 0,5mm
Length		64,0 ± 0,5mm
Height		153,0 ± 0,5mm
Weight		290gr (approx)
Body Material		ABS plastic

BB-4400 LI-ION

2000 mAh 7.5V AU



Product Information	4400 Li-Ion Battery	
Type	BB 4400 LI-ION 2000MAH 7.5V AU	
Stock Number	152-0001-0015	
Nominal Voltage	7.5V	
Operating Voltage	5V-8,4V	
Nominal Capacity	2Ah	
Max. Discharge	3,25A	
Charge(20±5)	8,4V-1,4Ah	
Protection	(Over-charge, over-discharge, over-current and short-circuit)	
Cycle Life	(Charge with 8,4V – 1,4A, until the charging current and discharge with 3,25A until the battery voltage decreases to 5V) (20±5 °C)	Minimum 300 cycles in accordance with the charge-discharge profile given below. (Capacity ≥ %60)
Case Material	ABS	
Operating Temperature Range	Charge +10° C to + 45 °C	
	Discharge -20 °C to + 60 °C	
	Storage < 35 °C	

BB-4400 LI-ION

2500 mAh



Product Information	BB-4400 Li-ion 2500 mAh
Type	BB-4725
Stock Number	152-0001-0017
Nominal Voltage	7.5V
Nominal Capacity	2500 mAh
Minimum Capacity	2650mAh
Dimensions	22.8 x 52.3 x 112.8mm (Without clip)
Weight (gr)	138 ±10 (Without clip)
Standard Charge	3 hours with 8.4V / 1.855 A (Constant Voltage, Constant Current)
Discharge Protection Current	3 ~5 A
End of Discharge Voltage	5.5 V
Protection	Against battery overcharge, overdischarge, overcurrent and short circuit must be preserved. There will be a battery and cell protection structure.
Cycle Life	In accordance with the charge-discharge profile given below, the battery is 60% Minimum 500 cycles until it reaches capacity. (Charging up to 50mA with 8.4V/1.855A, discharging up to 5.5V with 2.65A at 20±5°C)
Case Material	LEXAN EXL-9330 / BLACK
Operating Temperature Range	Charge 0°C to + 45°C Discharge -20°C to + 60°C Storage < 35 °C

BB-4400 LI-ION

3250 mAh 7.5V



Product Information	4400 Li-Ion Battery	
Type	BB-029C	
Stock Number	152-0001-0023	
Nominal Voltage	7.5V	
Operating Voltage	6V-8,4V	
Nominal Capacity	3250mAh ±50mAh Cutoff voltage≤6V	
Max. Discharge	3,25A	
Charge(20±5)	8,4V-1,625A	
Charge cut off current	50mA	
Protection	Over-charge, overdischarge, over-current and short-circuit	
Cycle Life	(Charge with 8,4V – 1,625A, until the charging current and discharge with 3,25A until the battery voltage decreases to 6V) (20±5°C)	Minimum 300 cycles in accordance with the charge-discharge profile given below. (Capacity ≥ %60)
Case Material	LEXAN EXL-9339 / Black	
Width	23,4mm	
Length	53,35mm	
Height	112,1mm	
Weight	138 ±10 g (approx.)	
Operating Temperature Range	Charge +10° C to + 45 °C Discharge -20 °C to + 60 °C Storage < 35 °C	



BB-4400 LI-ION

2500 mAh

Product Information	BB-4400 Li-ion 2500 mAh
Type	BB-4725
Stock Number	152-0001-0017
Nominal Voltage	7.5V
Nominal Capacity	2500 mAh
Minimum Capacity	2650mAh
Dimensions	22.8 x 52.3 x 112.8mm (Without clip)
Weight (gr)	138 ±10 (Without clip)
Standard Charge	3 hours with 8.4V / 1.855 A (Constant Voltage, Constant Current)
Discharge Protection Current	3 ~5 A
End of Discharge Voltage	5.5 V
Protection	Against battery overcharge, overdischarge, overcurrent and short circuit must be preserved. There will be a battery and cell protection structure.
Cycle Life	In accordance with the charge-discharge profile given below, the battery is 60% Minimum 500 cycles until it reaches capacity. (Charging up to 50mA with 8.4V/1.855A, discharging up to 5.5V with 2.65A at 20±5°C)
Case Material	LEXAN EXL-9330 / BLACK
Operating Temperature Range	Charge 0°C ile + 45°C Discharge -20°C ile + 60°C Storage < 35 °C

BB-4400 LI-ION

2800 mAh



In this product
ASPILSAN
INR18650A28
lithium ion
rechargeable battery
has been used.

Product Information	4400 Li-Ion Battery	
Type	BB-029C	
Stock Number	152-0001-0196 (Without clip)	
Nominal Voltage	7.5V	
Operating Voltage	6V-8,4V	
Nominal Capacity	2,65Ah	
Max. Discharge	3,25A	
Charge(20±5)	8,4V-1,4Ah	
Protection	(Over-charge, overdischarge, over-current and short-circuit)	
Cycle Life	(Charge with 8,4V – 1,85A, until the charging current and discharge with 3,25A until the battery voltage	Minimum 300 cycles in accordance with the charge-discharge profile given below. (Capacity ≥ %60)
Case Material	LEXAN EXL-9339 / Black	
Width	23,4mm	
Length	53,35mm	
Height	112,1mm	
Weight	136 ±10 g (approx)	
Operating Temperature Range	Charge 0° C ile + 45 °C	
	Discharge -20 °C ile + 60 °C	
	Storage < 35 °C	

Chargers

The background is a solid dark blue. It features several large, overlapping, organic shapes in a lighter shade of blue. These shapes are fluid and non-geometric, resembling liquid droplets or soft-edged brushstrokes. One large shape is in the upper right, another is in the lower left, and a third, more elongated shape is in the center. The overall effect is a modern, minimalist design.

BB-2590 Dual Charger



Product Information	
Product Name	BB-2590 Dual Charger
Model Number	ASP LISC 016
Stock Number	152-0002-0029
Inout Voltage	220V AC $\pm 10\%$ 50Hz $\pm 10\%$
Output Voltage	4 x 16.8V
Max Output Current	4 x 1,7A
Charging Method	CC-CV
Dimensions	210x170x90mm
Protection Features	Reverse Connection and Short Circuit Protection
Operating Temperature Range	0°C / 40°C
Storage Temperature Range	-40°C / 85°C
Charge Status Indicator	Red in charging mode with constant current until the voltage reaches 16.8V, constant voltage after reaching 16.8V LED status indicator in yellow for about 4 hours in mode and green after the charge is completed.
Body Material	ABS
Weight	1000 \pm 15 gr

BB-2590 Single Charger



Product Name	BB-2590 CH_EN 2x 16,8V / 1,7A Charger
Stock Number	152-0002-0006
Rechargeable Battery Type	Lithium Ion
Input Voltage	220 ± 20V AC 50Hz
Output Voltage	2 x 16,8VDC
Max Output Current	2 x 1,7A
Dimensions (mm) Width x Length x Height	80 ± 1 x 134 ± 1 x 45 ± 1
Weight (g)	540 (Approx.)

BB-2847 Charger



Product Name	BB-2847 Li Ion Battery Charger
Stock Number	152-0002-0004
Input Voltage	220V ± 20V AC 50 Hz
Output Voltage	8.4V DC
Max Output Current	2.7A
Dimensions (mm) Width x Length x Height	67 x 108 x 48.2
Weight (g)	225 (approx.)

Mini Thermal Binocular Battery Charger - Dual



Product Name	Mini Thermal Binocular Battery Charger - Dual
Place of use	BBL014 type Li Ion
Stock Number	152-0002-0011
Input Voltage	220 ± 20VAC 50Hz
Output Voltage	2 x 8,4 Volt DC
Maximum Output Current	2 x 1,65A
Dimensions (mm)	70,7

KANGURU Charging Unit



The KANGURU smart battery storage and charging cabinet, developed for our defense industry through the efforts of ASPİLSAN Enerji engineers, has been awarded a Utility Model Certificate by the Turkish Patent and Trademark Office. KANGURU has the ability to charge military batteries multiple times as required.

Nickel Cadmium Battery Cells

The background of the slide is a dark navy blue. It features several large, overlapping, organic shapes in a lighter blue color. These shapes are fluid and non-geometric, resembling liquid or smoke. One large shape is in the upper right, another is in the lower left, and a third, more elongated shape is in the lower right. The text 'Nickel Cadmium Battery Cells' is positioned in the upper left area, in a white, bold, sans-serif font.

FP 8H1C

Usage Platform:
SIKORSKY
BLACKHAWK



Product Information		FP8H1C NICKEL - CADMIUM AIRCRAFT BATTERY CELL
Type		FP8H1C
Stock Number		151-0021-0001
Nato Stock Number		6140 27 005 8070
Nominal Voltage		1.2 Volt
Nominal Capacity		1 CA / 7 Ah
Width		27.0 mm
Lenght		60 mm
Height		108 mm
Weight		400 gr
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 7 A constant current until battery voltage reaches 1,55 V, then additional charge with 1.4 A for 2 hours.
(+15°C / + 25°C)	2	Charge with 1.4 A constant current for 7 hours

FP 15H1C

Usage Platform:

F-4
RF-5
T-38
AB-205
CESSNA 210/310



Product Information		FP15H1C NICKEL CADMIUM AIRCRAFT BATTERY CELL
Type		FP 15H1C
Stock Number		152-0021-0003
Nato Stock Number		6140 27 005 8062 6008 60 20150 (past stock number)
Nominal Voltage		1.2 Volt
Nominal Capacity		1 CA / 15 Ah
Width		28.0 mm
Lenght		59.0 mm
Height		171.5 mm
Weight		650 gr
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 15 A constant current until battery voltage reaches 1,55 V, then additional charge with 3 A for 2 hours
(+15°C / + 25°C)	2	Charge with 3 A constant current for 7 hours

FP 17H1C

Usage Platform

F 16
BLOCK 40/50
Sikorsky UH-60
F-4
T-38
AB-206
NF-5
RF-5



Product Information		FP17H1C NICKEL - CADMIUM AIRCRAFT BATTERY CELL
Type		FP 17H1C
Stock Number		151-0021-0005
Nato Stock Number		6140 27 007 9953
Nominal Voltage		1.2 Volt
Nominal Capacity		1 CA / 17 Ah
Width		28.5 mm
Lenght		80 mm
Height		143.5 mm
Weight		690 gr
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 22 A constant current until battery voltage reaches 1,55 V, then additional charge with 3.4 A for 2 hours.
(+15°C / + 25°C)	2	Charge with 2.4 A constant current for 7 hours

FP 22H1C

Usage Platform



Product Information		FP22H1C NICKEL - CADMIUM AIRCRAFT BATTERY CELL
Type		FP 22H1C
Stock Number		152-0021-0006
Nato Stock Number		
Nominal Voltage		1.2 Volt
Nominal Capacity		1 CA / 22 Ah
Width		27 mm
Lenght		80 mm
Height		164.5 mm
Weight		860 gr
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 22 A constant current until battery voltage reaches 1,55 V, then additional charge with 4.4 A for 2 hours.
(+15°C / + 25°C)	2	Charge with 4.4 A constant current for 7 hours

FP 25H1C

Usage Platform
CASA C-212



Product Information		FP25H1C NICKEL - CADMIUM AIRCRAFT BATTERY CELL
Type		FP 25H1C
Stock Number		151-0021-0007
Nato Stock Number		6140 27 005 8067
Nominal Voltage		1.2 Volt
Nominal Capacity		1 CA / 25 Ah
Width		27 mm
Lenght		80.1 mm
Height		208.5 mm
Weight		1100 gr (Approx.)
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 25 A constant current until battery voltage reaches 1,55 V, then additional charge with 5 A for 2 hours
(+15°C / + 25°C)	2	Charge with 5 A constant current for 7 hours

FP 27H1C

Usage Platform

CIVIL AVIATION
C-130
MI-17
MI-8



Product Information		FP27H1C NICKEL - CADMIUM AIRCRAFT BATTERY CELL
Type		FP 27H1C
Stock Number		151-0021-0008
Nato Stock Number		6140 27 005 8066
Nominal Voltage		1.2 Volt
Nominal Kapasite / Nominal Capacity		1 CA / 27 Ah
Width		35.5 mm
Lenght		80 mm
Height		180 mm
Weight		1200 gr
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 27 A constant current until battery voltage reaches 1,55 V, then additional charge with 5.4 A for 2 hours.
(+15°C / + 25°C)	2	Charge with 5.4 A constant current for 7 hours

FP 40H1C

Usage Platform

- KT-1T*
C-130 (Hercule)
CIT-7
C-160
GIV-4
B-212
- T-37*
UH-1H
MA-32A
Cessna Challenger
CASA CN-235



Product Information		FP40H1C NICKEL - CADMIUM AIRCRAFT BATTERY CELL
Type		FP 40H1C
Stock Number		152-0021-0009 (60090000006)
Nato Stock Number		6140 27 005 8065
Nominal Voltage		1.2 Volt
Nominal Capacity		1 CA / 40 Ah
Width		35 mm
Lenght		79.1 mm
Height		239 mm
Ağırlık / Weight		1550 gr
Operating Temperature Range		-40°C to 70°C
Charge Conditions	1	Charge with 40 A constant current until cell voltage reaches 1.55 V, then additional charge with 8 A for 2 hours.
(+15°C / + 25°C)	2	Charge with 8 A constant current for 7 hours

Aviation Batteries

The background of the slide features a dark navy blue field. Overlaid on this are several large, fluid, organic shapes in a lighter, medium blue color. These shapes overlap each other, creating a sense of depth and movement. One large shape is positioned in the upper right, another in the lower left, and a third, more elongated shape stretches across the middle right. The overall aesthetic is modern and professional.

F20/27H1CM

Usage Platform

MI-17
MI-8



Product Information		F 20/27H1CM NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/27H1CM
Stock Number		152-0003-0003
Nato Stock Number		6140 27 005 8060
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 27 Ah
Width		169 mm
Lenght		480 mm
Height		236 mm
Weight		29 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 27 A constant current until battery voltage reaches 31 V, then additional charge with 5.4 A for 2 hours.
	2	Charge with 5.4 A constant current for 7 hours.

F20/25H1CTF

Usage Platform

SF-260D
CASA C-212



Product Information		F 20/25H1CTF NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/25H1CTF
Stock Number		152-0003-0008 (60061300250)
Nato Stock Number		6140 27 005 8061
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 25 Ah
Width		197 mm
Lenght		254 mm
Height		224 mm
Weight		24.6 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 25 A constant current until battery voltage reaches 31 V, then additional charge with 5 A for 2 hours.
	2	Charge with 5 A constant current for 7 hours.

ASPF20/27H1C

Usage Platform
Civil Aviation



Product Information		ASPF20/27H1C NICKEL – CADMIUM AIRCRAFT BATTERY
Type		ASPF20/27H1C
Stock Number		152-0003-0015 (60061200275)
Nato Stock Number		
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 27 Ah
Width		247 mm
Lenght		255 mm
Height		201 mm
Ağırlık / Weight		28 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 27 A constant current until battery voltage reaches 31 V, then additional charge with 5.4 A for 7 hours.
	2	Charge with 5.4 A constant current for 7 hours.

F20/40H1CTF

Usage Platform
CASA CN-235



Product Information		F20/40H1CTF NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F20/40H1CTF
Stock Number		152-0003-0010 (60061300400)
Nato Stock Number		6140 27 005 8058
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 40 Ah
Width		247 mm
Lenght		253 mm
Height		262 mm
Weight		36.5 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 40 A constant current until battery voltage reaches 31 V, then additional charge with 8 A for 2 hours.
	2	Charge with 8 A constant current for 7 hours.

F20/27H1CT

Usage Platform
C-130



Product Information		F20/27 H1CT NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/27H1CT
Stock Number		152-0003-0028
Nato Stock Number		
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 27 Ah
Width		247 mm
Lenght		257 mm
Height		201 mm
Weight		29 kg
Operating Temperature Range		-40°C ile 71°C / -40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 27 A constant current until battery voltage reaches 31 V, then additional charge with 5.4 A for 2 hours.
	2	Charge with 5.4 A constant current for 7 hours.

F20/22H1CT

Usage Platform
ANKA / AKSUNGUR UAV



Product Information		F20/22H1C NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F20/22H1CT
Stock Number		1152-0003-0004
Nato Stock Number		
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 22 Ah
Width		165 mm
Lenght		309 mm
Height		180 mm
Weight		21 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 22 A constant current until battery voltage reaches 31 V, then additional charge with 4.4 A for 2 hours.
	2	Charge with 4.4 A constant current for 7 hours.

F20/40H1CT-2 KT-1T

Usage Platform
C-130



Product Information		F20/40H1CT-2 KT-1T NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F20/40H1CT-2 KT-1T
Stock Number		152-0003-0032
Nato Stock Number		
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 40 Ah
Width		247 mm
Lenght		253 mm
Height		262 mm
Weight		36.5 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 40 A constant current until battery voltage reaches 31 V, then additional charge with 8 A for 2 hours.
	2	Charge with 8 A constant current for 7 hours.

F20/7H1CT4

Usage Platform:
SIKORSKY UH-60



Product Information		F 20/7H1CT4 NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/7H1CT4
Stock Number		152-0003-0009 (60061300070)
Nato Stock Number		6140 27 005 8064
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 7 Ah
Width		142 mm
Lenght		318.5 mm
Height		123.5 mm
Weight		10.5 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 8 A constant current until battery voltage reaches 31 V, then additional charge with 1.6 A for 7 hours.
(+15°C / + 25°C)	2	Charge with 1.6 A constant current for 7 hours.

F20/12H1CT4

Usage Platform:
F-16 (BLOCK 30)



Product Information		F 20/12H1CT4 NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/12H1CT4
Stock Number		
Nato Stock Number		*
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 12 Ah
Width		211 mm
Lenght		230 mm
Height		162 mm
Weight		13 kg
Operating Temperature Range		-40°C to 70°C
Charge Conditions (+15°C / + 25°C)	1	Chcurrent until battery voltage reaches 31 V, then additional charge whith 2.4 Afor 2 hours.
	2	Charge with 2.4 A constant current for 7 hours.

F20/15H1C

Usage Platform:

F-4
T-38
AB-206
NF-5
RF-5



Product Information		F 20/15H1C NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/15H1C
Stock Number		152-0003-0007 (60061200150)
Nato Stock Number		6140 27 005 8062
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 15 Ah
Width		198 mm
Lenght		195 mm
Height		196 mm
Weight		16.3 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions	1	Charge with 15 A constant current until battery voltage reaches 31 V, then additional charge with 3 A for 2 hours.
(+15°C / + 25°C)	2	Charge with 3 A constant current for 7 hours.

F20/17H1CT

Usage Platform:
F-16 (BLOCK 40-50)



Product Information		F 20/17H1CT NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/17H1CT
Stock Number		152-0003-0014
Nato Stock Number		-
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 17 Ah
Width		227 mm
Lenght		264 mm
Height		162 mm
Weight		19 kg
Operating Temperature Range		-40°C to 70°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 17 A constant current until battery voltage reaches 31 V, then additional charge with 3.4 A for 2 hours.
	2	Charge with 3.4 A constant current for 7 hours.

F20/17H1C-2

Usage Platform:
AB -206



Product Information		F 20/17H1C-2 NICKEL - CADMIUM AIRCRAFT BATTERY
Type		F 20/17H1C-2
Stock Number		152-0003-0016 (60061200171)
Nato Stock Number		-
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 17 Ah
Width		209 mm
Lenght		270 mm
Height		146 mm
Weight		16.7 kg
Operating Temperature Range		-40°C to 70°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 17 A constant current until battery voltage reaches 31 V, then additional charge with 3.4 A for 2 hours.
	2	Charge with 3.4 A constant current for 7 hours.

F20/22H1C

Usage Platform
ANKA / AKSUNGUR UAV



Product Information		F20/22H1C NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F20/22H1C
Stock Number		152-0003-0004
Nato Stock Number		*
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 22 Ah
Width		165 mm
Lenght		309 mm
Height		180 mm
Weight		21 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 22 A constant current until battery voltage reaches 31 V, then additional charge with 4.4 A for 2 hours.
	2	Charge with 4.4 A constant current for 7 hours.

F20/40HICEIWT (H)

Usage Platform:
COUGAR AS-532
SUPER PUMA



Product Information		F20/40HICEIWT (H) NICKEL - CADMIUM AIRCRAFT BATTERY
Type		F20/40HICEIWT (H)
Stock Number		152-0003-0005
Nato Stock Number		6140 27 005 8059
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 40 Ah
Width		210 mm
Lenght		420 mm
Height		267 mm
Weight		38 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 40 A constant current until battery voltage reaches 31 V, then additional charge with 8 A for 2 hours.
	2	Charge with 8 A constant current for 7 hours.

F19/40H1C

Usage Platform

C130

HERCULES



Product Information		F19/40H1C NICKEL - CADMIUM AIRCRAFT BATTERY
Type		F 19/40H1C
Stock Number		152-0003-0012 (60061400400)
Nato Stock Number		6140 27 007 0699
Nominal Voltage		22,5 Volt
Nominal Capacity		1 CA / 40 Ah
Width		247 mm
Lenght		253 mm
Height		262 mm
Weight		35 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 40A constant current until battery voltage reaches 31 V, then additional charge with 8 A for 2 hours.
	2	Charge with 8 A constant current for 7 hours.

F20/40H1C

Usage Platform:

- KT-1T
- C-160
- GIV-4
- B-212
- T-37
- CIT-7
- UH-1H
- MA-32A
- CESSNA



Product Information		F20/40H1C NICKEL – CADMIUM AIRCRAFT BATTERY
Type		F 20/40H1C
Stock Number		152-0003-0032 (60061200400)
Nato Stock Number		6140 27 005 3805
Nominal Voltage		24 Volt
Nominal Capacity		1 CA / 40 Ah
Width		247 mm
Lenght		253 mm
Height		262 mm
Weight		36.5 kg
Operating Temperature Range		-40°C to 71°C
Charge Conditions (+15°C / + 25°C)	1	Charge with 40 A constant current until battery voltage reaches 31 V, then additional charge with 8 A for 2 hours.
	2	Charge with 8 A constant current for 7 hours.

Marine Battery Systems

The background of the slide is a dark navy blue. It features several large, overlapping, organic shapes in a lighter blue color. These shapes are fluid and non-geometric, resembling waves or abstract landmasses. One large shape is in the upper right, another is in the middle right, and a third is in the lower left, partially overlapping the others.

Barbaros Frigate Battery (4X5 KRX 145P)



Type		4X5 KRX 145P
Standard and Specification		VG 95238-T39
Cell Type		FIBRE PLATE CELL (KRX 145P)
Nominal Voltage		24 Volt
Nominal Capacity		145 Ah
Maximum Power (kW)		22.5
Dimensions(mm)	Width	645 mm
	Lenght	170 mm
	Height	373 mm
Weight (kg)		56

Barbaros Frigate Battery (F20/40 H1CT-D2)



Type		F20/40 H1CT-D2
Standard and Specification		VG 95238-T2
Cell Type		FP40H1C-D
Nominal Voltage		24 Volt
Nominal Capacity		40 Ah
Maximum Power (kW)		22.5
Dimensions(mm)	Width	554 mm
	Lenght	123 mm
	Height	245 mm
Weight (kg)		37.5

Milgem-5 Battery (F20/40 H1CT-D1)



Type		F20/40 H1CT-D1
Standard and Specification		VG 95238-T2
Cell Type		FP40H1C-D
Nominal Voltage		24 Volt
Nominal Capacity		40 Ah
Maximum Power (kW)		22.5
Dimensions(mm)	Width	432 mm
	Lenght	244 mm
	Height	166 mm
Weight (kg)		37.5

Rail System Batteries

The background of the slide features a dark blue base color. Overlaid on this are several large, fluid, wavy shapes in a lighter shade of blue. These shapes are positioned in the upper right and lower right areas, creating a sense of movement and depth. The overall aesthetic is modern and clean.

Rail System Battery



Product Information		
Standards and Qualifications	EN 60077-1:2002, IEC 60623:2001, EN 45545-2:2015, IEC 61373:2010, IEEE 1568:2003, UIC 854-R 1st Edition:1-7-71	
Stock Number	152-0008-0002	
Nominal Voltage	24V DC	
Max. Voltage	32-35V DC (Charge)	
Operating Voltage Range	18-28V DC	
Nominal Capacity	75Ah	
Continuous Discharge Current	15A	
Battery Type	Fiber Ni-Cd	
Temperature Sensor Type	PT100	
Max. Discharge Current	75A	
Cycle Life	3000	
Dimensions	462 mm x 487 mm x 332 mm	
Weight	97 kg	
Storage Temperature Range	+10 °C / +35 °C	
Operating Temperature Range	Charge	+0 °C / +40 °C
	Discharge	-20 °C / +50 °C

KFM 56P



Product Inormation	
Cell Type	KFM 56 P
Nominal Voltage	1.2 V
Nominal Capacity	56 Ah
Dimensions	86 mm x 86 mm x 276 mm
Weight	3.0 kg (Approx.)
Charge Voltage (Float)	1.40 to 1.45 V/Cell
Charge Voltage (Boost)	1.50 to 1.55 V/Cell

KFM 75P



Product Information	
Cell Type	KFH 75 P
Nominal Voltage	1.2 V
Nominal Capacity	75 Ah
Dimensions	86 mm x 86 mm x 312 mm
Weight	3.8 kg (Approx.)
Charge Voltage (Float)	1.40 to 1.45 V/Cell
Charge Voltage (Boost)	1.50 to 1.55 V/Cell

KFM 80P



Product Information	
Cell Type	KFM 80 P
Nominal Voltage	1.2 V
Nominal Capacity	80 Ah
Dimensions	86 mm x 86 mm x 312 mm
Weight	3.5 kg (Approx.)
Charge Voltage (Float)	1.40 to 1.45 V/Cell
Charge Voltage (Boost)	1.50 to 1.55 V/Cell

KFM 105P

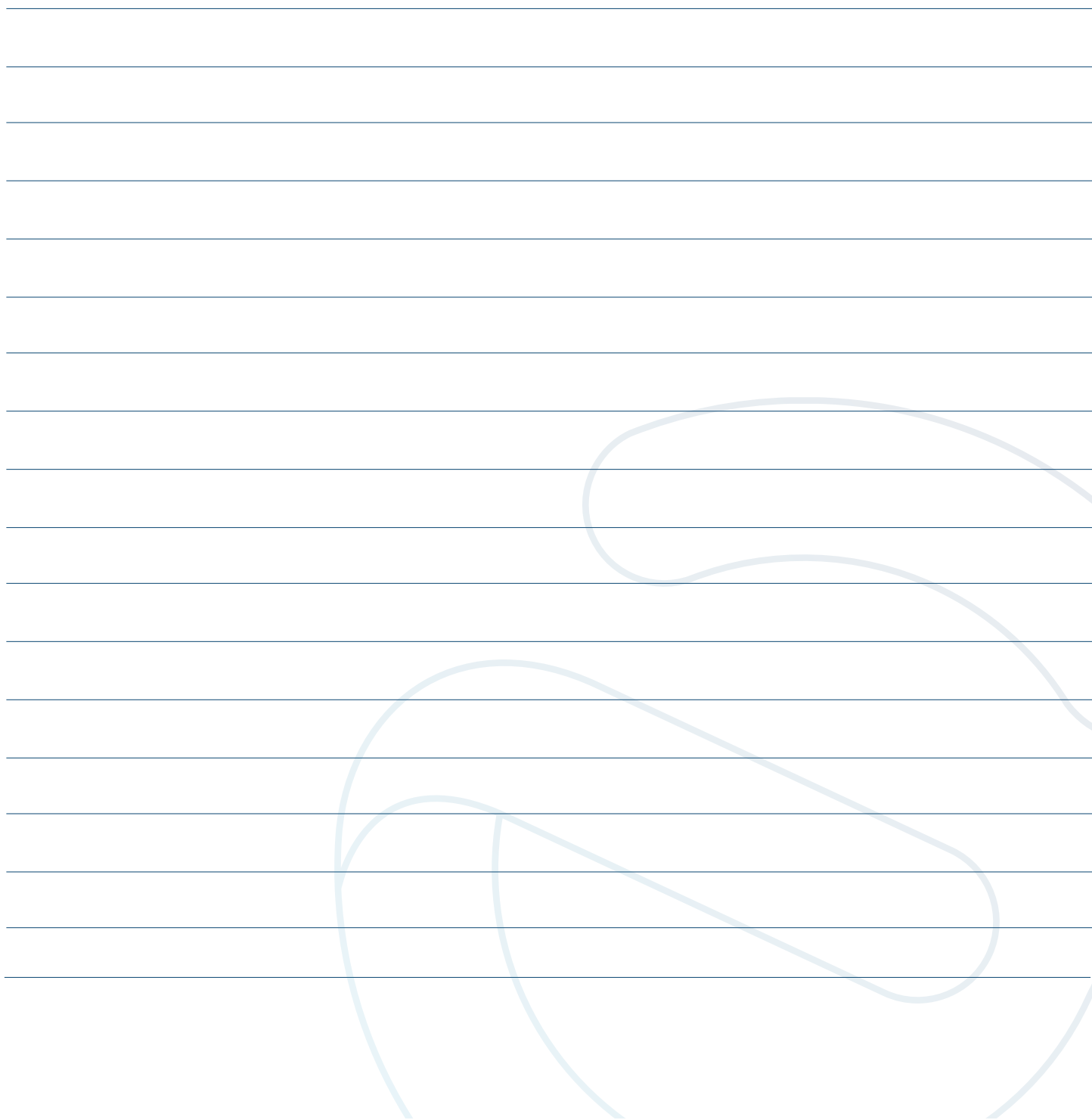


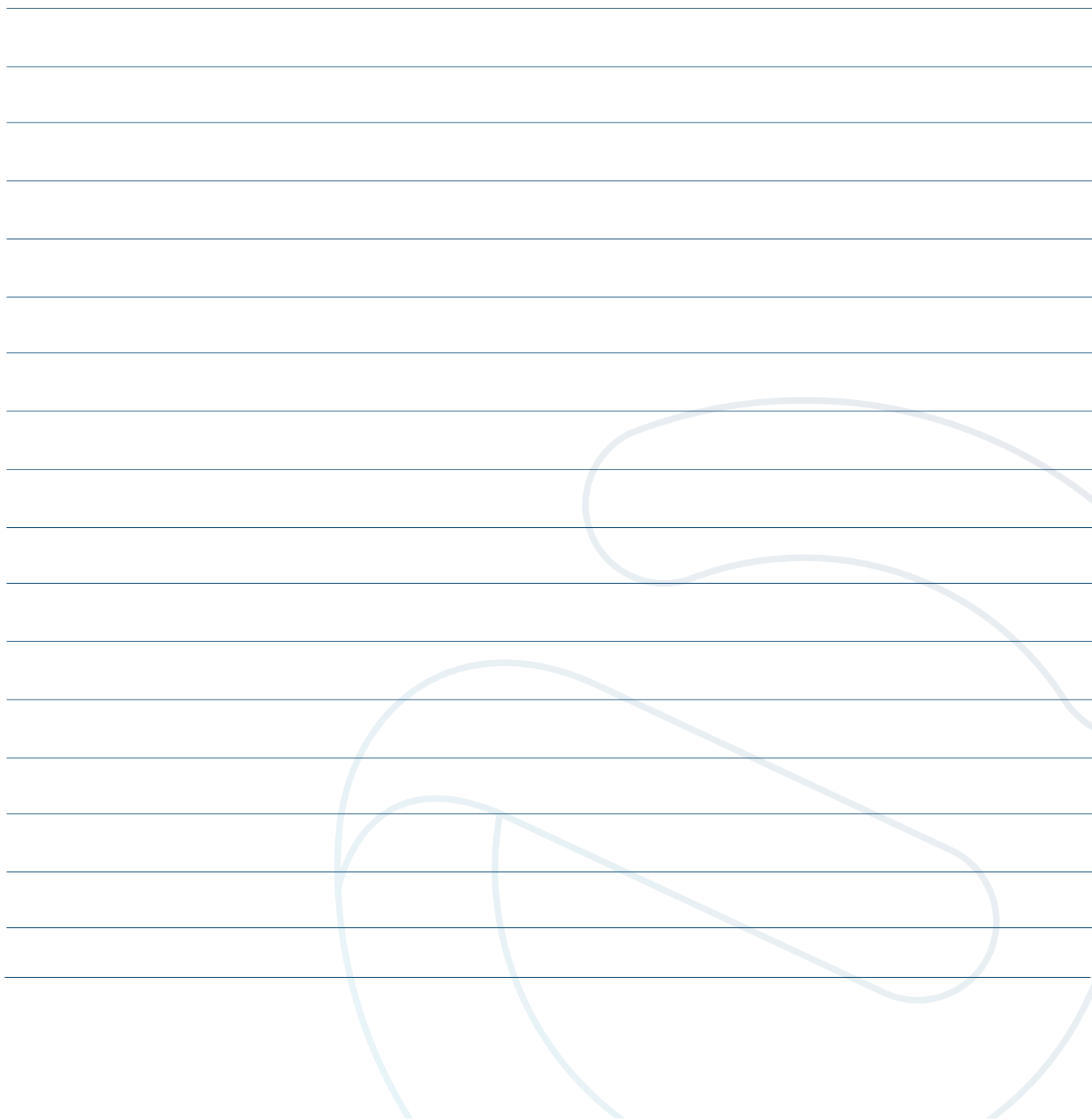
Product Information		
Cell Type		KFM 105 P
Nominal Voltage		1.2 V
Nominal Capacity		105 Ah
Dimensions		92 mm x 122 mm x 267 mm
Weight		5.0 kg (Approx.)
Charge Voltage (Float)		1.40 to 1.45 V/Cell
Charge Voltage (Boost)		1.50 to 1.55 V/Cell

KFM 160P



Product Information		
Cell Type		KFM 160 P
Nominal Voltage		1.2 V
Nominal Capacity		160 Ah
Dimensions		87 mm x 166 mm x 339 mm
Weight		7.2 kg (Approx.)
Charge Voltage (Float)		1.40 to 1.45 V/Cell
Charge Voltage (Boost)		1.50 to 1.55 V/Cell







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