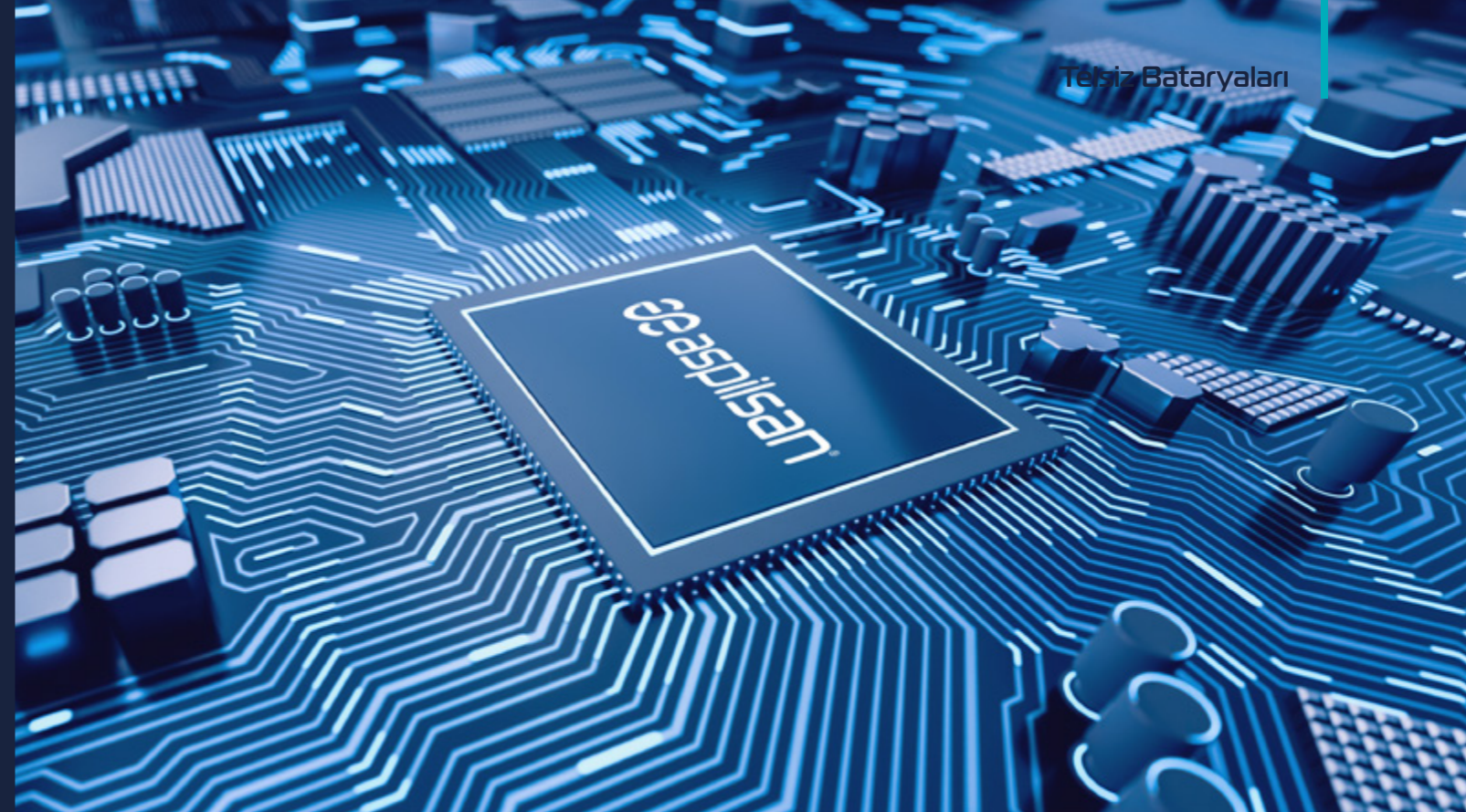


Product Catalog





Company Profile

ASPİLSAN Enerji A.Ş. was founded in Kayseri Organised Industrial Zone on the date of May 21st 1981.

ASPİLSAN Enerji's main fields of activity are;

- Batteries used in radios, weapon systems, thermal systems, robotics, medical devices and UAVs and battery blocks
- Airplane and helicopter batteries,
- Electric vehicle batteries,
- Rail system batteries,
- Energy storage systems,
- Chargers,
- Battery protection and Battery Management System (BMS) ,
- Electronic card production,
- Test, laboratory and engineering services.

Our company, which is the largest battery manufacturer in Turkey, also; It is the first and only company in our country that produces aircraft/helicopter batteries in nickel/cadmium chemistry. ASPİLSAN Enerji has three different R&D centers. In Kayseri electronic circuit, mechanical design and software, in Ankara; materials synthesis, electrochemistry, battery design, modeling and simulation, in Istanbul; It continues its research and product development studies on fuel cells and hydrogen technologies.



Product Name	3700 Battery		3700 Battery
Application(s)	ASELSAN 3700 DMR Handheld Radios		ASELSAN 3700 DMR Handheld Radios
Standards and Qualifications	MIL STD 810 E,F,G – ETSI EN 301 489-1		MIL STD 810 E,F,G – ETSI EN 301 489-1
Stock Number	152-0001-0078		152-0001-0079
Nominal Voltage	7.2V		7.2V
Maximum Voltage	8.4V		8.4V
Operating Voltage Range	5V		8.4V
Nominal Energy	8.28Wh		15.8Wh
Continuous Discharge Current	1.5Ah		1.5Ah
Max. Discharge Current	1.5Ah		1.5Ah
BMS Functions	Overcharge, over discharge, high current, short circuit		Overcharge, over discharge, high current, short circuit
Communication interface	One Wire		One Wire
Cycle Life	≥ 500 Cycle (%80 Capacity)		≥ 500 Cycle (%80 Capacity)
Width x Length x Height	53 mm x 9.8 mm x 111 mm		53 mm x 14.8 mm x 111 mm
Weight	74 g ± 5 g		112 g ± 5 g
Storage Temperature Range	+5 °C to +25 °C		+5 °C to +25 °C
Operating Temperature Range	Charge	0 °C to +45 °C	0 °C to +45 °C
	Discharge	-20 °C to +60 °C	-20 °C to +60 °C



Product Name	Ehket 4 Series Silicone Coated Battery	Ehket 6 Series Silicone Coated Battery
Application(s)	Radio	Radio
Stock Number	152-0001-0076	152-0001-0075
Nominal Voltage	14.4V	21.6V
Maximum Voltage	16.8V	35.2V
Operating Voltage Range	10V - 16.8V	15V - 25.2V
Nominal Energy	48.96Wh	73.44Wh
Nominal Capacity	3.4Ah	3.4Ah
Max. Discharge Current	2A	2A
BMS Functions	High/low voltage, Charge and discharge, high current, short circuit, high/low temperature	High/low voltage, Charge and discharge, high current, short circuit, high/low temperature
Cycle Life	≥ 400 Cycle (Capacity ≥ %80)	≥ 400 Cycle (Capacity ≥ %80)
Width x Lenght x Height	39.1 mm x 139.4 mm x 20.25 mm	58.1 mm x 139.4 mm x 20.35 mm
Weight	218 g	325 g
Storage Temperature Range	-20 °C to +30 °C	-20 °C to +30 °C
Operating Temperature Range	Charge: 0 °C to +45 °C Discharge: -20 °C to +65 °C	Charge: 0 °C to +45 °C Discharge: -20 °C to +65 °C

Product Name	BX-9651 Li-Ion Battery
Application(s)	ASELSAN 9651 V/UHF Software Based Tactics Handheld Radios
Standartlar and Kalifikasyonlar	MIL STD 810G - MIL STD 461F
Stock Number	152-0001-0022
Nominal Voltage	14.4V
Maximum Voltage	16.8V
Operating Voltage Range	10V - 16.8V
Nominal Energy	57.6Wh
Nominal Capacity	4Ah
Continuous Discharge Current	0.8A
Max. Discharge Current	4A
BMS Functions	Overcharge, Over Discharge and high current protection
Communication interface	One Wire
Cycle Life	≥ 500 Cycle (%80 Capacity)
Width x Lenght x Height	88.6 mm x 68.1 mm x 51.6 mm
Weight	477 g ±5 g (approx.)
Storage Temperature Range	< 20 °C
Operating Temperature Range	Charge: 0 °C to +45 °C Discharge: -20 °C to +60 °C



Product Name	4400 Li-Ion Battery	4411-4711 Ni-MH Battery	4411-4711 Li-Ion Battery
Application(s)	Aselsan 4411-4711 Series Handheld radios	Aselsan 4411-4711 Series Handheld radios	Aselsan 4411-4711 Series Handheld radios
Stock Number	152-0001-0024	152-0001-0020	152-0001-0016
Nominal Gerilim	7.2V	7.2V	7.5V
Nominal Capacity	3250mAh	2300mAh	2000mAh
Width x Lenght x Height (±0.30)	23.4 mm x 53.35 mm x 112.1 mm	21.90 mm x 53.40 mm x 112.40 mm	51.70 mm x 122.2 mm x 33.7 mm
Weight	138 g ± 10 g (approx.)	240 g (approx.)	125 g (approx.)



*Weapon Systems
Batteries*

Product Name	TOW Battery	
Application(s)	TOW Anti-Tank Missile System	
Stok Number	152-0001-0056	
Nominal Voltage	24V - 2 x 50.4V	
Capacity	Nominal	4Ah - 1,2Ah
	Typical	4,6Ah - 1,5Ah
Weight	9,5 kg	



Product Name	BB-OMTAS Fire Control Unit Battery	
Application(s)	Medium Range Antitank Weapon System (OMTAS)	
Standartlar and Kalifikasyonlar	MIL STD 810G – MIL STD 461F	
Stock Number	152-0001-0035	
Nominal Voltage	2 x 14.4V	
Maximum Voltage	2 x 16,8V	
Operating Voltage Range	2 x 10V - 16,8V	
Nominal Energy	2 x 237,6Wh	
Nominal Capacity	2 x 16.5Ah	
Continuous Discharge Current	3.3A	
Max. Discharge Current	19.8A (< 45 °C)	
BMS Functions	Overcharge/discharge, extreme temperature, overcurrent and short circuit protection	
Communication interface	SMBus V1.1	
Cycle Life	≥ 300 Cycle Life	
Width x Lenght x Height	146 mm x 232 mm x 77 mm	
Weight	3500 g ± 50 g	
Storage Temperature Range	+10 °C to +21 °C	
Operating Temperature Range	Charge	0 °C to +45 °C
	Discharge	-35 °C to +60 °C



Product Name	Mini Thermal Weapon Sight Battery	Mini Thermal Weapon Sight Battery V2.0	Mini Thermal Weapon Sight Battery V3.0
Application(s)	Mini Thermal Weapon Sight, Engerek 3 +	Mini Thermal Weapon Sight	Mini Thermal Weapon Sight
Stok Number	152-0001-0051	152-0001-0049	152-0001-0050
Nominal Voltage	7.2V	7.2V	7.2V
Nominal Capacity	3.25Ah	1.62Ah	2Ah
Max. Discharge Current	0.55A	1.62A	2A
Width x Lenght x Height	39,5 mm x 21,3 mm 110 mm ± 5mm (approx.)	39,5 mm x 21,3 mm 110 mm ± 5mm (approx.)	39,5 mm x 21,3 mm 110 mm ± 5mm (approx.)
Weight	330 g ± 10 g (approx.)	360 g ± 20 g (approx.)	330 g ± 20 g (approx.)



Product Name	STINGER THT Battery
Application(s)	STINGER Low Altitude Air Defense System
Stok No.	152-0001-0038
Nominal Gerilim	2 x 20,4V - 1 x 40,8V
Nominal Capacity	1,7Ah



Product Name		6T Battery
Application(s)		Armored Vehicles
Standards and Qualifications		MIL-PRF-32565B, MIL-STD-810G, MIL-STD-461F, MIL-STD-1275D
Stock Number		152-0001-0136
Nominal Voltage		25.2VDC
Maximum Voltage		29.4VDC
Operating Voltage Range		17.5VDC – 29.4VDC
Nominal Energy		1.26kWh – 4.03kWh (Configurable)
Nominal Capacity		50Ah – 160Ah (Configurable)
Continuous Discharge Current		up to 250A
Max. Discharge Current		1100A, 30sn
BMS Functions		Monitoring, Protection, Balancing and Communication
Communication interface		CANBus (SAE J1939)
Cycle Life		> 1000 Cycle (23 °C, 1C/1C)
Width x Length x Height		230 mm x 269 mm x 286 mm
Weight		10 kg – 27 kg (Depending on Capacity)
Storage Temperature Range		-40 °C to +60 °C
Operating Temperature	Charge	0 °C to +50 °C
Range	Discharge	-40 °C to +60 °C



Product Name	BB 2590 Li-Iyon Battery	BB 2590 V2 Li-Ion Battery	BB 2590 DS Li-Ion Battery
Application(s)	Jammer, Radios, Robotic systems	Jammer, Radios, Robotic systems	Jammer, Radios, Robotic systems
Standards and Qualifications	MIL STD 810G – MIL STD 461F – MIL PRF 32383/3	MIL STD 810G – MIL STD 461F – MIL PRF 32383/3	MIL STD 810G – MIL STD 461F – MIL PRF 32383/3
Stock Number	152-0001-0001	152-0001-0004	152-0001-0095
Nominal Voltage	2 x 14.4V	2 x 14.4V	2 x 14.4V
Maximum Voltage	2 x 16.8V	2 x 16.8V	2 x 16.8V
Operating Voltage Range	2 x 10V - 16.8V	2 x 10V - 16.8V	2 x 10V - 16.8V
Nominal Energy	2 x 148.32Wh	2 x 148.32Wh	2 x 129.6Wh
Nominal Capacity	2 x 10.3Ah	2 x 10.3Ah	2 x 9Ah
Continuous Discharge Current	2.04A	2.04A	2.04A
Max. Discharge Current	10A	10A	10A
BMS Functions	Overcharge/discharge, extreme temperature and short circuit protection	Overcharge/discharge, extreme temperature and short circuit protection	Overcharge/discharge, extreme temperature and short circuit protection
Communication interface	SMBus V1.1	SMBus V1.1	SMBus V1.1
Cycle Life	≥ 500 Cycle (%80 Capacity)	≥ 500 Cycle (%80 Capacity)	≥ 500 Cycle (%80 Capacity)
Width x Lenght x Height	62 mm x 111 mm x 127 mm	62 mm x 111 mm x 127 mm (± 2mm)	62 mm x 111 mm x 127 mm
Weight	1380 g (max.)	1380 g (max.)	1380 g (max.)
Storage Temperature Range	< 20 °C (1 Year)	< 20 °C (1 Year)	< 20 °C (1 Year)
Operating Temperature Range	Charge	0 °C to +45 °C	0 °C to +45 °C
	Discharge	-20 °C to +60 °C	-20 °C to +60 °C
			-30 °C to +60 °C

Product Name	BB CENKER Battery	
Application(s)	ASELSAN CENKER	
Standards and Qualifications	IP67 Sealing	
Stock Number	152-0001-0077	
Nominal Voltage	14.4V	
Maximum Voltage	16.8V	
Operating Voltage Range	10V-16.8V	
Nominal Energy	97.9Wh	
Nominal Capacity	6.8Ah	
Continuous Discharge Current	5A	
Max. Discharge Current	5A	
BMS Functions	Overcharge/discharge, high/low temperature, short circuit and overcurrent protection	
Communication interface	SMBUS V1.1	
Cycle Life	≥ 400 Cycle (Capacity ≥ %80)	
Width x Lenght x Height	93.6 mm x 181.5 mm x 15.8 mm	
Weight	620 g ± 30 g	
Storage Temperature Range	< 20 °C (1 Year)	
Operating Temperature Range	Charge	0 °C to +45 °C
	Discharge	-20 °C to +60 °C



Product Name	BB-2847 Li-Iyon DS 7.2V 9Ah	
Application(s)	Piton/Boa Thermal Weapon Sight	
Stock Number	152-0001-0105	
Nominal Voltage	7.2V	
Maximum Voltage	8.4V	
Operating Voltage Range	5V - 8.4V	
Nominal Energy	64.8Wh	
Nominal Capacity	9Ah	
Continuous Discharge Current	1.8A	
Max. Discharge Current	6A	
BMS Functions	Overcharge, discharge, current, temperature and short circuit protection	
Communication interface	SMBUS	
Cycle Life	Min. 300 Cycle	
Width x Lenght x Height	38,60 mm x 65,35 mm x 95,20 mm ± 0,30mm	
Weight	330 g ± 10 g (approx.)	
Storage Temperature Range	Recommended: 15 °C to 21 °C	
Operating Temperature Range	Charge	0 °C to +45 °C
	Discharge	-43 °C to +60 °C





Product Name	BB-2847A/U Li-Ion Battery	BB-2847A/U_X3-3P Li-Ion Battery	BB-2847/U Li-Ion Battery
Application(s)	Mine Detector AN/PM-34. AN/PAS-13. AN/PRS-7. BOA/PITON Thermal Weapon Sight	Mine Detector AN/PM-34. AN/PAS-13. AN/PRS-7. BOA/PITON Thermal Weapon Sight	Mine Detector AN/PM-34. AN/PAS-13. AN/PRS-7. BOA/PITON Thermal Weapon Sight
Stok Number	152-0001-0010	152-0001-0012	152-0001-0007
Nominal Voltage	7.2V	7.2V	7.2V
Nominal Capacity	10.3Ah	8.5Ah	6.4Ah
Max. Discharge Current	5A	7A	10A
Width x Length x Height	38.60 mm x 65.35 mm x 95.20 mm	62 mm x 111 mm x 127 mm	62 mm x 111 mm x 127 mm
Weight	330 g ± 10 g (approx.)	330 g ± 20 g (approx.)	360 g ± 20 g (approx.)

Product Name	Gergedan V2.0	
Application(s)	ASELSAN jammer system	
Stock Number	152-0001-0106	
Nominal Voltage	24-30V	
Maximum Voltage	8-12V	
Operating Voltage Range	6-8.4V	
Nominal Energy	7.2V	
Nominal Capacity	20.88Wh	
Continuous Discharge Current	2.9Ah	
Max. Discharge Current	2A	
BMS Functions	Overcharge, Over Discharge, high current, short circuit, high/low temperature	
Cycle Life	≥ 400 Cycle (Capacity ≥ %80) @ 0.5C Charge – 0.2C Discharge, 23°C	
Width x Length x Height	79 mm x 91 mm x 32 mm ±0.2mm	
Weight	300 gr. (Max.)	
Storage Temperature Range	-10 °C to +35 °C (1 Month) -5 °C to +25 °C (3 Month) 0 °C to +20 °C (1 Year)	
Operating Temperature Range	Charge	0 °C to +40 °C
	Discharge	Battery Active
		Battery de Active



Product Name	Mirket Battery	
Application(s)	Jammer	
Standards and Qualifications	MIL STD 810G	
Stock Number	152-0001-0067	
Nominal Voltage	7.2VDC	
Maximum Voltage	8.4VDC	
Operating Voltage Range	6VDC – 8.4VDC	
Nominal Energy	21.6Wh	
Nominal Capacity	3Ah	
Continuous Discharge Current	2A	
Max. Discharge Current	2A	
BMS Functions	Overcharge/discharge, high/low temperature, overcurrent and short circuit protection	
Cycle Life	≥ 300 Cycle (Capacity ≥ %80)	
Width x Length x Height	73.3 mm x 79.5 mm x 32.3 mm	
Weight	350 g (max.)	
Storage Temperature Range	-20 °C to +50 °C	
Operating Temperature Range	Charge	0 °C to +40 °C
	Discharge	-20 °C to +60 °C





Product Name	Telecom Battery 50Ah	Telecom Battery 100Ah
Application(s)	Base Stations	Base Stations
Stock Number	152-0001-0143	152-0001-0141
Nominal Voltage	48V	48V
Maximum Voltage	54.75V	54.75V
Operating Voltage Range	40V - 54.75V	40V - 54.75V
Nominal Energy	2400Wh	4800Wh
Nominal Capacity	50Ah	100Ah
Continuous Discharge Current	25A	50A
Max. Discharge Current	50A	100A
BMS Functions	Overcharge/discharge, overcurrent, short circuit, high/low temperature	Overcharge/discharge, overcurrent, short circuit, high/low temperature
Communication Interface	CanBus / RS485	CanBus / RS485
Cycle Life	≥ 4000 (@%80 DOD, CAPACITY ≥ %80)	≥ 4000 (@%80 DOD, CAPACITY ≥ %80) (0,5C CHARGE / 0,5C DISCHARGE)
Width x Length x Height	483 mm x 380 mm x 133 mm (±1 mm)	395 mm x 482,6 mm x 175 mm (±1 mm)
Weight	33,8 kg (±1kg)	48,5 kg (±1kg)
Storage Temperature Range	-20 °C to 45 °C	-20 °C to 45 °C
Operating Temperature Range	Charge: 0 °C to +45 °C Discharge: -20 °C to +60 °C	Charge: 0 °C to +55 °C Discharge: -20 °C to +60 °C

Product Name	24V System Battery
Application(s)	Robotic Systems
Stock Number	152-0001-0097
Nominal Voltage	25.2V
Maximum Voltage	29.4V
Operating Voltage Range	17,5-29,4V
Nominal Energy	514Wh
Nominal Capacity	20,4Ah
Continuous Discharge Current	10A
Max. Discharge Current	20A
BMS Functions	Low/high current, low/high discharge and charge, short circuit, low/high temperature
Cycle Life	400 Cycle
Width x Length x Height	78 mm x 232 mm x 146 mm ± 5mm
Weight	3200 g ± 100 g
Storage Temperature Range	-20 °C to +60 °C
Operating Temperature Range	Charge: 0 °C to +40 °C Discharge: -20 °C to +60 °C



Product Name	GZM-03 Li-Ion Battery
Application(s)	Military
Stock Number	152-0001-0111
Nominal Voltage	14,4V
Maximum Voltage	16,8V
Operating Voltage Range	10V-16,8V
Nominal Energy	39,6Wh
Nominal Capacity	2,75Ah
Continuous Discharge Current	0,55A
Max. Discharge Current	3,3A
BMS Functions	OCC, OCD, OV, UV, OT, UT, SCD
Communication interface	SMBUS
Cycle Life	Charge: 16,8V / 1,35A to Charge current till 50mA Waiting: 20min Discharge: 2,75A up to 10V > 300 Cycle.
Width x Length x Height	41,3 mm x 41,3 mm x 78,2 mm
Weight	220 g ± 20 g
Storage Temperature Range	20 °C ≤ Temperature ≤ 30 °C
Operating Temperature Range	Charge: 0 °C to +45 °C Discharge: -20 °C to +60 °C





Product Name	BB 21.6V Vacuum Cleaner Battery	
Application(s)	Vacuum Cleaner	
Standards and Qualifications	IEC62133-2:2017, UNDOT38.3	
Stock Number	152-0001-0139	
Nominal Voltage	21.6VDC	
Maximum Voltage	25.2VDC	
Operating Voltage Range	15VDC – 25.2VDC	
Nominal Energy	43.2Wh	
Nominal Capacity	2000mAh	
Continuous Discharge Current	5A	
Max. Discharge Current	20A (6ms)	
BMS Functions	Protection, Compensation, Communication Functions	
Communication interface	SMBus, UART, SPI	
Cycle Life	300 Cycle	
Width x Length x Height	85 mm x 70 mm x 45 mm	
Weight	350 g ± 50 g	
Storage Temperature Range	-20 °C to +65 °C (1 Month) -20 °C to +45 °C (3 Month) -20 °C to +25 °C (1 Year)	
Operating Temperature Range	Charge	0 °C to +55 °C
	Discharge	-20 °C to +60 °C



Product Name	MINI EDS	
Application(s)	It can be used in any area where the energy needs of critical systems are demanded during a power outage.	
Nominal Voltage	48VDC	
Maximum Voltage	58.8VDC	
Operating Voltage Range	37-58.8VDC	
Nominal Energy	12kWh	
Nominal Capacity	250Ah	
Continuous Discharge Current	0.5C	
Max. Discharge Current	0.5C	
BMS Functions	Protection, Balancing, Communication Protections	
Communication interface	CANbus	
Cycle Life	1000	
Width x Length x Height	580 mm x 900 mm x 980 mm	
Weight	196 kg	
Storage Temperature Range	-30 °C to +60 °C	
Operating Temperature Range	Charge	0 °C to +55 °C
	Discharge	-20 °C to +55 °C

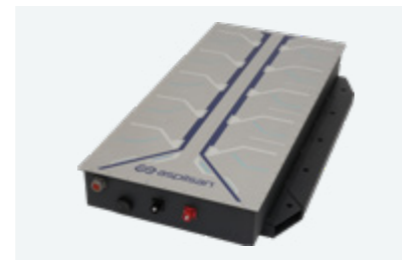


E-Mobility

Product Name		Electric Vehicle Battery
Standards and Qualifications		Electric Vehicle
Nominal Voltage		400VDC
Maximum Voltage		470VDC
Operating Voltage Range		280VDC - 470VDC
Nominal Energy		20kWh
Nominal Capacity		50Ah
Continuous Discharge Current		50A
Max. Discharge Current		50A
BMS Functions		Overcharge, Over Discharge, overcurrent, short circuit, low/high temperature
Communication interface		CANBus 2.0b
Cycle Life		≥ 1000 Cycle @%80DoD (Capacity ≥ %80)
Width x Length x Height		1500 mm x 1275 mm x 162 mm
Weight		210 kg (Max.)
Operating Temperature Range	Charge	0 °C to +45 °C
	Discharge	-20 °C to +55 °C



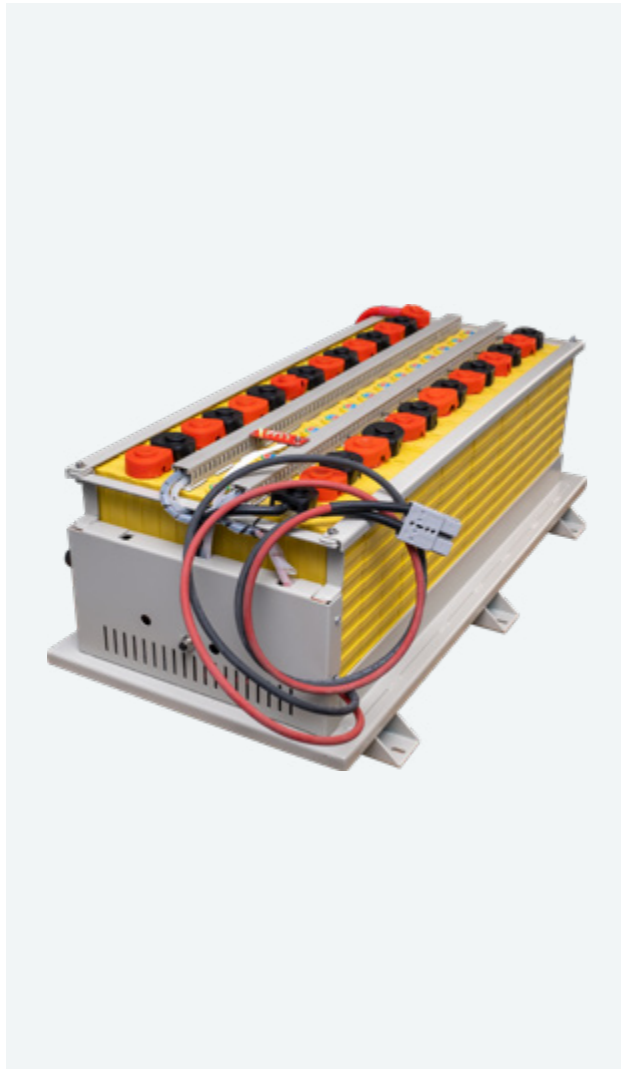
Product Name		Light Electric Vehicle Battery
Standards and Qualifications		IP44
Nominal Voltage		48VDC
Operating Voltage Range		42VDC - 54,75VDC
Nominal Capacity		300Ah - 14,4kWh
Max. Discharge Current		300A (30 sec)
Communication interface		CAN 2.0B
Cycle Life		4000 Cycle
Width x Length x Height		1100mm x 656 mm x 180 mm with stand 1100mm x 500 mm x 180 mm without stand
Weight		150 kg
Operating Temperature Range	Charge	-20°C to +55 °C
	Discharge	0 °C to +55 °C



Product Name		24V 50Ah AGV Battery
Application(s)		Automatic Guided Vehicles
Stock Number		152-0001-0093
Nominal Voltage		25,55V
Maximum Voltage		29,4V
Operating Voltage Range		17,5V – 29,4V
Nominal Energy		1277,5Wh
Nominal Capacity		50Ah
Continuous Discharge Current		10A
Max. Discharge Current		50A
BMS Functions		OCD, OCC, OV, UV, OT, SCD, SOC
Communication interface		CAN Bus
Cycle Life		≥500 Cycle (%70 DoD)
Width x Length x Height		230 mm x 400 mm x 124 mm
Weight		12,80 kg
Storage Temperature Range		-20 °C to +60 °C (1 Month) -20 °C to +45 °C (3 Month) -20 °C to +20 °C (1 Year)
Operating Temperature Range	Charge	0 °C to +45 °C
	Discharge	-20 °C to +60 °C



Product Name		24V 70Ah AGV Battery
Application(s)		Automatic Guided Vehicles
Stock Number		152-0001-0115
Nominal Voltage		25,55V
Maximum Voltage		29,4V
Operating Voltage Range		17,5V – 29,4V
Nominal Energy		1788,5Wh
Nominal Capacity		70Ah
Continuous Discharge Current		14A
Max. Discharge Current		60A
BMS Functions		OCD, OCC, OV, UV, OT, SCD, SOC
Communication interface		CAN Bus
Cycle Life		≥500 Cycle (%70 DoD)
Width x Length x Height		230 mm x 400 mm x 124 mm
Weight		13,08 kg
Storage Temperature Range		-20 °C to +60 °C (1 Month) -20 °C to +45 °C (3 Month) -20 °C to +20 °C (1 Year)
Operating Temperature Range	Charge	0 °C to +45 °C
	Discharge	-20 °C to +60 °C



Product Name		48V 200Ah AGV Battery
Application(s)		Automatic Guided Vehicles
Stock Number		152-0001-0109
Nominal Voltage		48V
Operating Voltage Range		42V-54V
Nominal Energy		9.6kWh
Nominal Capacity		200Ah
Continuous Discharge Current		100A
Max. Discharge Current		70A
BMS Functions		Overcharge, over discharge, overcurrent, short circuit, low/high temperature
Communication interface		CAN Bus
Cycle Life		≥ 2000 Cycle (Capacity ≥ %80) @ 0.5C Charge—0.2C Discharge, 23 °C
Width x Length x Height		500 mm x 950 mm x 350 mm
Weight		150 kg (+5 kg)
Storage Temperature Range		-10 °C to +30 °C (1 Month) -5 °C to +25 °C (3 Month) -10 °C to +30 °C (1 Year)
Operating Temperature Range	Charge	-5 °C to +45 °C
	Discharge	-20 °C to +60 °C



Product Name	57.6V Scooter Battery	46.8V Scooter Battery	46.8V Scooter Battery
Application(s)	Electric Scooter	Electric Scooter	Electric Scooter
Stock Number	152-0001-0121	152-0001-0132	152-0001-0128
Nominal Voltage	57.6V DC	46.8V DC	46.8V DC
Maximum Voltage	67.2V DC	54.6V DC	54.6V DC
Operating Voltage Range	44.8V DC – 67.2V DC	32.5V - 54.6V DC	32.5V-54.6V DC
Nominal Energy	1.15kWh	940Wh	940Wh
Nominal Capacity	20Ah	20.1Ah	20.1Ah
Continuous Discharge Current	16A	10A	10A
Max. Discharge Current	35A (1 sec)	20A	20A
BMS Functions	Protection Functions	Protection Functions	Protection Functions
Communication interface	-	CAN BUS	RS-485
Cycle Life	400	500	500
Width x Length x Height	250 mm x 355 mm x 100 mm (±1 mm)	89.5 mm x 124 mm x 393.5 mm (± 1 mm)	430 mm x 118 mm x 76 mm (± 1 mm)
Weight	~ 5.9 kg ± 50 g	~ 5.5 kg ± 50 g	~ 5.5 kg ± 50 g
Storage Temperature Range	-25 °C to 35 °C	-25 °C to 35 °C	-25 °C to 35 °C
Operating Temperature Range	Charge	0 °C to +45 °C	0 °C to +60 °C
	Discharge	-10 °C to +60 °C	-40 °C to +60 °C



Product Name	KANGURU Smart Battery Storage and Charging Cabinet
Description	KANGURU can charge the batteries by storing them in the optimum temperature range. The state of (charge in) the batteries and the internal temperature are display on LCD screen.
Application(s)	It can be used in any area where large amounts of batteries need to be charged and stored.
Number of Shelves	4
Number of Batteries in Each Shelf	20
Total Number of Rechargeable Batteries	80
Shelf Structure	Special design for each battery type
Cabin Lighting	Blue/White interior lighting
Rechargeable Battery Types	Upon request (Radio Batteries etc.)
Cabin Door Warning System	If the cabin door remains open, the system will give a warning.
User Interface	Overcharge, Over Discharge, overcurrent, 7 inch Touch Screen
Supply Voltage	220V AC Mains Voltage
Cabin Air Conditioning System	Cabin temperature between 18°C ~ 26°C
Operating Temperature Range	Suitable for working at ambient temperatures between -40 °C to +60 °C
Width x Length x Height	625 mm x 650 mm x 1800 mm
Weight	100 kg (approx.)
Rechargeable Battery Types	It can be developed specifically for the application. (BB-2847 batteries, Mini Thermal Binocular batteries, Radio batteries, etc.)



Product Name	Dual BB-2590 Charger
Application(s)	Desk type BB 2590 battery charger
Stock Number	152-0002-0029
Input Voltage	220V AC ± %10 50 Hz ± %10
Output Voltage	4 x 16.8V
Maximum Output Current	4 x 1.7A
Lead Wire Length	160 cm
Width x Lenght x Height	210 mm x 170 mm x 90 mm
Weight	1000 g ± 15 g



Product Name	BB-2590 CH_EN 2 x 16,8V / 1,7A Charger
Stok Number	152-0002-0006
Chargeable Battery Type	Lithium-Ion
Input Voltage	220 ± 20V AC 50Hz
Output Voltage	2 x 16.8V DC
Maximum Output Current	2 x 1.7A
Width x Lenght x Height	80 mm x 134 mm x 45 mm ± 1 mm
Weight	540 g (Approx.)



Product Name	Sealed BB-2590/U Ch_En Charger Head
Stok Number	152-0002-0019
Width x Lenght x Height	49,8 mm x 62,2 mm x 38,5 mm
Weight	237 kg
Lead Wire Length	100 cm

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



Product Name	BB-2847 Lithium - Ion Battery Car Charger
Stok Number	152-0002-0009
Input Voltage – Akımı	10-30 VDC / 4A
Output Voltage – Akımı	8,4V DC / 2,7A
Width x Lenght x Weight	36,50 mm x 66,60 mm x 106,70 mm ± 1 mm
Weight	270 g (Approx.)



Product Name	GZM-03 Li-Ion Battery Block AC Charger Stand v1.0
Application(s)	Military
Stock Number	152-0002-0027
Input Voltage	2 x 16,8V DC
Output Voltage	2 x 16,8V DC
Maximum Output Current	2 x 1,7A
Width x Lenght x Height	92 mm x 82 mm x 60 mm
Weight	119,2 g ± 0,2 g
Other	There are five LED indicators on the charging stand that show the charging status of both batteries. It has equipment that can charge two batteries at the same time. It can charge in CC or Cv mode.





Product Name		Cockpit Battery
Application(s)		Aircraft
Standards and Qualifications		MIL-DTL-38999, MIL-DTL-26482, MIL-DTL-5015
Stock Number		152-0001-0110
Nominal Voltage		21.6V DC
Maximum Voltage		25.2V DC
Operating Voltage Range		16.8V DC – 25.2V DC
Nominal Energy		73.44Wh
Nominal Capacity		3.4Ah
Continuous Discharge Current		3A
Max. Discharge Current		15A (100ms)
BMS Functions		Protection, Balancing
Cycle Life		~400
Width x Length x Height		75 mm x 160 mm x 35 mm
Weight		550 g
Storage Temperature Range		-20 °C to +20 °C (%30 Charge)
Operating Temperature Range	Charge	0 °C to +40 °C
	Discharge	-10 °C to +50 °C



Nicel-Cadmium Aircraft/Helicopter Batteries

Battery Type	Standards	Nato Stock Number (NSN)	Cell		Nominal		Max. Power (kW)	Dimensions			Weight (kg)	Connector	Application(s)		
			Type	NSN 6140 27...	Voltage (V)	Capacity (Ah)		Width (mm)	Length (mm)	Height (mm)					
F20/12H1CT4	IEC 952-1 IEC 952-2 MIL-B-26220C MIL-STD-810C BS 3G 205 VG 95238T2 TS EN 2570	--	FP12H1C	005 8069	24	12	9.2	211	230	162	13	Special	F-16 (Blok30)		
F20/7H1CT4		005 8064	FP7H1C	005 8070		7	5.2	142	318.5	123.5	10.5	MS18093	Sikorsky UH-60		
F20/15H1C		005 8062	FP17H1C	-		198	195	196	16.3	F-4T-38, AB-206, NF-5, RF-5, Cessna-210-310 vb					
F20/17H1C-2		--				209	270	146	16.3		AB-206 (Jet/ Long Ranger)				
F20/17H1CT-2		--	FP17H1CT-S	007 9953		12	227	264	162	18-20	Special	F-16 (Blok 40/50)			
F20/25H1CTF		005 8061	FP25H1C	005 8067		25	15.7	197	254	224	24.5	MS18093	SF-260D, CASA C-212.vb.		
F20/27H1CM		005 8060	FP27H1C	005 8066		27	18.8	169	480	236	29	Special	MI-17,MI-8		
F19/40H1C		007 0699	FP40H1C	005 8065		22.8	21.3	247	253	262	35	MS18093	C-130 (Hercule)		
F20/40H1C		005 3805				24	40				22.5		36.5	C-160, GIV-4-B-212.T-37, CIT-7, UH-1H, MA-32A, Cessna Challenger. vb.	
F20/40H1CTF		005 8058				210	420				267		38	BAC102	COUGAR AS-532, Super Puma
F20/40H1CE1WT(H)		8059				21	MS18093				ANKA İHA				
F20/22H1CT		--	FP22H1C	-		24	22	14	165	309	180	21	MS18093	ANKA İHA	
F20/27H1C		--	FP27H1C	005 8066		27	18.8	247	255	201	28	MS18093	Civil Aviation		
F20/27H1CT		--				18.8	247	257	201	29	MS18093	C-130 (Hercule) Erciyes Avionics Modernization			

Nicel-Cadmium Marine Batteries

Battery Type	Standard and Specifications	NSN 6140 27	Cell		Nominal		Max. Power (kW)	Dimensions			Weight (kg)	Application(s)
			Type	NSN 6140 27...	Voltage (V)	Capacity (Ah)		Width (mm)	Length (mm)	Height (mm)		
F20/40 H1CT-D1	VG 95238-T2	-	FP40H1C-D	-	24	40	22.5	432	244	166	37.5	MILGEM-5
F20/40 H1CT-D2	VG 95238-T2	-	FP40H1C-D	-				554	123	245	37.5	Barbaros Firkateyni
4X5 KRX 145P	VG 95238-T39	-	FIBRE PLATE CELL (KRX 145P)	-				645	170	373	56	Barbaros Firkateyni

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