

PTC
ÜRÜN TEST VE BELGELENDİRME
SAN. TİC. LTD. ŞTİ

DENEY RAPORU
TEST REPORT

Müşteri Adı / Adresi:
Customer name / address

Gama Akümülatör Sanayi ve Ticaret Limited Şirketi
Çalı Mah. OSB 4, Çalı, 410. Sk. No.:4, 16110 Nilüfer /Bursa/ Türkiye

Rapor ve İstek No.:
Report and order no.:

171801-4962-1

Numunenin Adı ve Tarifi:
Name and identity of test item:

LİTYUM AKÜ

Deneyin Yapıldığı Tarih:
Date of test:

16.09.2026 – 30.09.2026

Rapor Sayfa Sayısı:
Number of pages of the report:

23

Açıklamalar:
Remarks:

Ürün ilgili testlerden geçmiştir, lütfen raporu inceleyiniz.
The product passes related tests, see report below.

Mühür/ Tarih
Seal/ Date

01.10.2026



Deneyi Yapan Personel
Person in Performing the Test

Dijital olarak imzalayan
ERTUĞRUL GÜL
Tarih: 2026.10.01 16:35:24
+03'00'

Onaylayan /
Laboratuvar Teknik
Yöneticisi
Approved by / Laboratory
Technical Manager

EMİNE NUR ÇİDEM
2026.10.01
16:36:42 +03'00'

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DENEY RAPORU / TEST REPORT IEC 62619	
Rapor Numarası <i>Report number</i>	: 171801-4962-1
Veriliş Tarihi <i>Date of issue</i>	: 01.10.2026
Toplam Sayfa Sayısı <i>Total number of pages</i>	: 23
Deneyi Yapan Laboratuvar <i>Testing Laboratory</i>	: PTC ÜRÜN TEST VE BELGELENDİRME SAN. TİC. LTD. ŞTİ
Adres <i>Address</i>	: Örnek Mahallesi Udi Hasanbey Sokak Reis Plaza No: 31A Ataşehir / İSTANBUL
Deney Adresi <i>Testing Location</i>	: Örnek Mahallesi Udi Hasanbey Sokak Reis Plaza No: 31A Ataşehir / İSTANBUL
Başvuranın Adı <i>Applicant's name</i>	: Gama Akümülatör Sanayi ve Ticaret Limited Şirketi
Adresi <i>Address</i>	: Çalı Mah. OSB 4, Çalı, 410. Sk. No.:4, 16110 Nilüfer /Bursa/ Türkiye
Deney Ayrıntıları <i>Test Specifications</i>	
Standard	: IEC 62619
Deney Prosedürü <i>Test procedure</i>	: Deney standartlarına göre kısmi deneyler/ According to the test standard partial tests
Standard Dışı Deney Yöntemi <i>Non-standard test method</i>	: -
Deney Raporu Form No <i>Test report form no</i>	: -
Deney Rapor Form(ları) Oluşturan <i>Test report form(s) originator</i>	: PTC
Ana TRF <i>Master TRF</i>	: -
Deney ve/veya ölçüm sonuçları, genişletilmiş ölçüm belirsizlikleri (olması halinde) ve deney metotları bu sertifikanın tamamlayıcı kısmı olan takip eden sayfalarda verilmiştir. Bu rapor laboratuvar gönderilen numunelere uygulanan deney/deneyler sonucu hazırlanmıştır. Müşteriye ait diğer numuneleri kapsamaz. <i>The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report. This report was prepared according to test results of specimens sent to laboratory. It doesn't contain other specimens belonging to customer.</i>	
Deney Numunesi Açıklaması <i>Test item description</i>	: LİTYUM AKÜ
Marka <i>Trade Mark</i>	: GAMALLON
Üretici <i>Manufacturer</i>	: Gama Akümülatör Sanayi ve Ticaret Limited Şirketi
Model/Tip <i>Model /Type reference</i>	: GAMALLON-80V-560AH
Beyan Değerleri <i>Ratings</i>	: 83.2 V ; 46.59 kW ; Class II ; IP65

Standart/Standard : IEC 62619

Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications

Ek Dosya Listesi (Eklerin içerdği sayfa sayısı dahil) :

List of attachments (including a total number of pages in each attachment) :

Ek.1 / Attachment.1 - Ölçüm Cihazları / Measuring Equipments

Ek.2 / Attachment.2 - Görsel Dökümanlar / Photo Documentation

Olası Deney Durumu Kararları/ Possible test case verdicts:

- deney durumu deney numunesi için geçerli değildir....: <i>test case does not apply to the test object</i>	N
- deney numunesi gereksinimi karşılıyor.....: <i>test object does meet the requirement</i>	P (Pass / Geçti)
- deney numunesi gereksinimi karşılamıyor.....: <i>test object does not meet the requirement</i>	F (Fail / Kaldı)

Genel Açıklamalar / General Remarks

Revizyon Sebebi/ Reason of Revision : Ürünün model adı değiştirilmiştir. / *The product model name has been changed.*

Bu raporda sunulan test sonuçları yalnızca test edilen nesneyle ilgilidir. Bu rapor, yayınlayan test laboratuvarının yazılı onayı olmaksızın tamamen veya kısmen çoğaltılamaz.

“(Bakınız Kutu #)” rapora eklenen ek bilgilere işaret etmektedir.

“Ekli tabloya bakınız”, rapora eklenen bir tabloya atıfta bulunmaktadır.

Parantez içerisindeki madde numaraları, ilgili deney standardında geçen maddelere karşılık gelir.

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory. “(See Enclosure #)” refers to additional information appended to the report. “(See appended table)” refers to a table appended to the report.

Bu rapor boyunca ☐ nokta / ☒ virgül ondalık ayracı olarak kullanılır.

Throughout this report a ☐ comma / ☒ point is used as the decimal separator.

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IEC 62619			
Clause	Requirement + Test	Result - Remark	Verdict
4	Parameter measurement tolerances		N
	Parameter measurement tolerances		N
5	GENERAL SAFETY CONSIDERATIONS		P
5.1	General		P
	Cells and batteries are safe under conditions of both intended use and reasonably foreseeable misuse	Clause 6, Clause 7, 8.1, and 8.2. See also table 5.1 for Critical components information	N
	Reduce the risk of injuries from moving parts		N
5.2	Insulation and wiring		P
	Voltage, current, altitude, and humidity requirements		P
	Adequate clearances and creepage distances between connectors and live parts at different voltages or between live parts and non-current-carrying accessible parts		N
	Protect from hazardous live parts, including during installation		N
	The mechanical integrity of internal connections		N
5.3	Venting		N
	Pressure relief function		N
	Encapsulation used to support cells within an outer casing		N
5.4	Temperature/voltage/current management		P
	The design prevents abnormal temperature-rise		P
	Voltage, current, and temperature limits of the cells		P
	Specifications and charging instructions for equipment manufacturers		P

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5.5	Terminal contacts of the battery pack and/or battery system		N
	Polarity marking(s)		N
	Polarity marking not provided for keyed external connector		N
	Capability to carry the maximum anticipated current		N
	External terminal contact surfaces		N
	Terminal contacts are arranged to minimize the risk of short circuits		N
5.6	Assembly of cells, modules, or battery packs into battery systems		P
5.6.1	General		P
	Independent control and protection method(s)		N
	Recommendations of cell operating limits, mounting advice, storage conditions and other design recommendations by the cell manufacturer		N
	Batteries designed for the selective discharge of a portion of their series connected cells		N
	Protective circuit component(s) and consideration to the end-device application		N
5.6.2	Battery system design		N
	The voltage control function		N
	Maximum charging/discharging current of the cell are not exceeded		N
5.7	Operating region of lithium cells and battery systems for safe use		N
	The cell operating region		N
	Designation of battery system to comply with the cell operating region		N
5.8	System lock (or system lock function)		N
	Non-resettable function to stop battery operation		N
	Manual with procedure for resetting of battery operation		N
	Emergency battery final discharge		N

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5.9	Quality plan		N
	Manufacturing quality plan (for example: ISO9001, etc.) prepared and implemented.....:	Reference:	N
	The process capabilities and the process controls		N

6	TYPE TEST CONDITIONS		P
6.1	General		P
6.2	Test items		P
	Cells or batteries that are not more than six months old (See Table 1 of IEC 62619)		P
	Capacity confirmation of the cells or batteries		P
	Default ambient temperature of test, 25 °C ± 5 °C		P

7	SPECIFIC REQUIREMENTS AND TESTS		N
7.1	Charging procedure for test purposes		N
	The battery discharged to a specified final voltage prior to charging		N
	The cells or batteries charged using the method specified by the manufacturer		N
7.2	Reasonably foreseeable misuse		N
7.2.1	External short-circuit test (cell or cell block)		N
	Short circuit with total resistance of 30 mΩ ± 10 mΩ at 25 °C ± 5 °C		N
	Results: no fire, no explosion		N
7.2.2	Impact test (cell or cell block)		N
	Cylindrical cell, longitudinal axis impact		N
	Prismatic cell, longitudinal axis and lateral axis impact		N
	Results: no fire, no explosion.		N
7.2.3	Drop test (cell or cell block, and battery system)		N
7.2.3.1	General		N

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7.2.3.2	Whole drop test (cell or cell block, and battery system)		N
	Description of the Test Unit.....:		—
	Mass of the test unit (kg).....:		—
	Height of drop (m).....:		—
	Results: no fire, no explosion		N
7.2.3.3	Edge and corner drop test (cell or cell block, and battery system)		N
	Description of the Test Unit.....:		—
	Mass of the test unit (kg).....:		—
	Height of drop (m).....:		—
	Results: no fire, no explosion		N
7.2.4	Thermal abuse test (cell or cell block)		N
	Results: no fire, no explosion		N
7.2.5	Overcharge test (cell or cell block)		N
	For those battery systems that are provided with only a single protection for the charging voltage control		—
	Results: no fire, no explosion.....:	See Table 7.2.5.	N
7.2.6	Forced discharge test (cell or cell block)		N
	Cells connected in series in the battery system.....:		N
	Redundant or single protection for discharge voltage control provided in battery system.....:		N
	Target Voltage.....:		N
	Maximum discharge current of the cell, Im.....:		N
	Discharge current for forced discharge, 1.0 It.:		N
	Discharging time, t = (1 It / Im) x 90 (min.).....:		N
	Results: no fire, no explosion.....:	See Table 7.2.6.	N
7.3	Considerations for internal short-circuit – Design evaluation		N
7.3.1	General		N
7.3.2	Internal short-circuit test (cell)		N

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	Samples preparation procedure: In accordance with Clause A.5 and A.6 of IEC 62133-2:2017		N
	Tested per 7.3.2 b) in an ambient temperature of 25 °C ± 5 °C.		N
	The appearance of the short-circuit location recorded by photograph or other means..... :	See Attachment # __	—
	The pressing was stopped - When a voltage drop of 50 mV was detected; or		N
	- The pressing force of 800 N (cylindrical cells) or 400 N (prismatic cells) was reached		N
	Results: no fire	See Table 7.3.2.	N
7.3.3	Propagation test (battery system)		P
	Method to create a thermal runaway in one cell	See Annex B and C	P
	Results: No external fire from the battery system, no battery case rupture..... :	See results in Table 7.3.3	P

8	BATTERY SYSTEM SAFETY (CONSIDERING FUNCTIONAL SAFETY)		P
8.1	General requirements		P
	Functional safety analysis for critical controls		P
	Conduct of a process hazard analysis for both the cell manufacturing process and the battery system manufacturing process		N
	Conduct of risk assessment and mitigation of the battery system		N
8.2	Battery management system (or battery management unit)		N
8.2.1	Requirements for the BMS		N
	The safety integrity level (SIL) target of the BMS		N
	The charge control evaluated by tests in clauses 8.2.2 to 8.2.4		N
8.2.2	Overcharge control of voltage (battery system)		N

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	The exceeded charging voltage applied to the whole battery system		N
	The exceeded charging voltage applied to only a part of the battery system, such as the cell(s)		N
	Results: no fire, no explosion	See Table 8.2.2.	N
	The BMS terminated the charging before exceeding the upper limit charging voltage		N
8.2.3	Overcharge control of current (battery system)		N
	Results: no fire, no explosion	See Table 8.2.3	N
	The BMS detected the overcharging current and controlled the charging to a level below the maximum charging current		N
8.2.4	Overheating control (battery system)		N
	The cooling system, if provided, was disconnected		N
	Elevated temperature for charging, 5 °C above maximum operating temperature		N
	Results: no fire, no explosion	See Table 9.2.5	N
	The BMS detected the overheat temperature and terminated charging		N
	The battery system operated as designed during test		N
9	EMC		N
	Battery system fulfil EMC requirements of the end-device application	See Table 9 [] See attachment # ____ for detail EMC report [] Intended for to be tested in the end use application [include specific application]	N
10	INFORMATION FOR SAFETY		P
	The cell manufacturer provides information about current, voltage and temperature limits of their products		P

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	The battery system manufacturer provides information regarding how to mitigate hazards to equipment manufacturers or end-users.		N
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11	MARKING AND DESIGNATION (REFER TO CLAUSE 5 OF IEC 62620)		N
	The marking items shown in Table 1 in IEC 62620 indicated on the cell, battery system or instruction manual.		N
	Cell or battery system has clear and durable markings		N
	Cell designation		N
	Battery designation		N
	Battery structure formulation		N

12	PACKAGING AND TRANSPORT		N
	Refer to Annex D		N

ANNEX A	OPERATING REGION OF CELLS FOR SAFE USE		N
A.1	General		N
A.2	Charging conditions for safe use		N
A.3	Consideration on charging voltage		N
A.4	Consideration on temperature		N
A.5	High temperature range		N
A.6	Low temperature range		N
A.7	Discharging conditions for safe use		N
A.8	Example of operating region		N

ANNEX B	PROCEDURE OF 7.3.3 PROPAGATION TEST BY LASER IRRADIATION		P
B.1	General		P
B.2	Test conditions		P
B.2.1	Cell test (preliminary test)		P
	The cell fully charged according to the manufacturer recommended conditions		—

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	Laser irradiation point on the cell		—
	Output power of laser irradiation		—
	Tested in an ambient temperature of 25 °C ± 5 °C		P
	Repeat of cell test for 3 times		P
B.2.2	Battery system test (main test)		P
	The battery system fully charged according to the manufacturer recommended conditions.....		—
	Target cell to be laser irradiated		—
	The irradiation point on the target cell same or similar as that on the cell test		
	Output power of laser irradiation		—
	Tested in an ambient temperature of 25 °C ± 5 °C		P

ANNEX C	PROCEDURE OF 7.3.3 PROPAGATION TEST BY METHODS OTHER THAN LASER		P
C.1	General		P
C.2	Test conditions:		N
	– The battery fully charged according to the manufacturer recommended conditions		—
	– Target cell forced into thermal runaway		—
	– A specially prepared sample (e.g. a heater or a hole for nail penetration provided) used for ease of testing.....		—
C.3	Method used for initiating the thermal runaway. 1) Heater (Heater, Burner, Laser, Inductive heating 2) Overcharge 3) Nail penetration of the cell 4) Combination of above methods 5) Other methods.....		—

ANNEX D	PACKAGING AND TRANSPORT		N
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	The materials and pack design chosen in a way as to prevent the development of unintentional electrical conduction, corrosion of the terminals and ingress of environmental contaminants		N
	Regulations concerning international transport of secondary lithium batteries		N

5.1	TABLE: Critical components information				
Object / part No.	Manufacturer/ trademark	Type / model	Technical data	Standard	Mark(s) of conformity ¹
Encapsulation					
- Enclosure					
- Jacket					
Insulation					
- Insulation tape					
- Insulation sheet					
- Spacer/Holder					
- Insulation paper					
Internal wiring					
Tubing/ Sleeving					
Cell inter-connection Busbar					
Internal Plastic					
Printed Wiring Board					
Heat-sink					
Contacto					

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Fuse external to BMS					
Battery management system (BMS)					
- Control Software					
- Thermostat					
- Fuse					
- PTC					
- NTC					
- Control IC					
- MOSFET					
- Current sensing resistor					
Heater					
Fans					
Coolant pump					
Coolant					
Valve					
Terminal contacts					
Connector					
Rating Label					
Cells					
- Case					
- Cell Lid					
- Electrolyte					
- Separator					
- Insulation					
- Centre tube					

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- Anode					
- Cathode					
- PTC					
- CID					
- Vent or pressure release mechanism					
- Description:					
Supplementary information:					
1) Provided evidence ensures the agreed level of compliance. See OD-CB2039.					

7.2.1	TABLE: External short-circuit test (cell or cell block)					N
Sample No.	Ambient (at 25°C ± 5°C)	OCV at start of test (V dc)	Resistance of Circuit (mΩ)	Maximum Case Temperature Rise ΔT (°C)	Results	
Supplementary information:						
A – No fire or Explosion						
B – Fire						
C – Explosion						
D – The test was completed after 6 h						
E – The test was completed after the cell casing cooled to 20% of the maximum temperature rise						
F – Other (Please explain):____						

7.2.5	TABLE: Overcharge test (cell or cell block)	N
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Sample No.	OCV at start of test (V dc)	OCV at end of test (V dc)	Measured Maximum Charging Current (A)	Measured Maximum Charging Voltage (V dc)	Max. Cell Case Temperature, (°C)	Results

Supplementary information:

Results:

A – No fire or Explosion

B – Fire

C – Explosion

D – Test concluded when temperature reached a steady state condition

E – Test concluded when temperature returned to ambient

F – Other (Please explain): _____

7.2.6	TABLE: Forced discharge test (cell or cell block)					N
Sample No.	OCV before applying reverse charge, (V dc)	Target Voltage (V dc)	Measured Reverse Charge Current I_t , (A)	Total Time for Reversed Charge Application (min)	Results	

Supplementary information:

Results:

A – No fire or Explosion

B – Fire

C – Explosion

D – Other (Please explain): _____

7.3.2	TABLE: Internal short-circuit test (cell)				N
Sample No.	OCV at start of test, (V dc)	Particle location ¹⁾	Maximum applied pressure, (N)	Results	

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Supplementary information:

1) Identify one of the following:

- 1: Nickel particle inserted between positive and negative (active material) coated area.
- 2: Nickel particle inserted between positive aluminium foil and negative active material coated area.

Results:

A – No fire or explosion

B – Fire

C – Explosion

D – Test concluded when 50 mV voltage drop occurred prior to reaching force limit

E – Test concluded when 800/400 N pressure was reached and 50 mV voltage drop was not achieved

F – Test was concluded when fire or explosion occurred

G – Other (Please explain): ____

7.3.3	TABLE: Propagation test (battery system)				P
Sample No.	OCV of Battery System Before Test, (V dc)	OCV of Target Cell Before Test, (V dc)	Maximum Cell Case Temperature, (°C)	Maximum DUT Enclosure Temperature, (°C)	Results
1	91,0	3,35	612	78	A

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Method of cell failure ¹⁾	Location of target cell	Area for fire protection (m ²)
applied heat	Cell No. 1	-
Supplementary information: 1) Cell can be failed through laser exposure, applied heat, overcharge, nail penetration or combinations of these failures or other acceptable methods. See supporting documentation for details on cell failure method 2) If the battery system has no outer covering, the manufacturer is required to specify the area for fire protection. Results: A – No fire external to DUT enclosure or area for fire protection or no battery case rupture B – Fire external to DUT enclosure or area for fire protection C – Explosion D – Battery case rupture E – Other (Please explain): ____		

8.2.2	TABLE: Overcharge control of voltage (battery system)					N
Sample No.	OCV at start of test for Cell/Cell Blocks, (V dc)	Maximum Charging Current, (A)	Max. Charging Voltage, (V dc)	Max. Voltage of Cell/Cell Blocks, (V dc)	Results	
			Charge Voltage Applied Battery System: 1)			
			Whole		Part	

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Supplementary information:

1) The exceeded voltage can be applied to only a part of the system such as the cell(s) in the battery system per Figure 6 of IEC 62619, if it is difficult to do it in using the whole battery system.

Results:

A – No Fire or Explosion

B – Fire

C – Explosion

D – The voltage of the measured cells or cell blocks did not exceed the upper limit charging voltage

E – The voltage of the measured cells or cell blocks did exceed the upper limit charging voltage

F – All function of battery system did operate as intended during the test.

G – All function of battery system did not operate as intended during the test.

H – Other (Please explain): ____

8.2.3	TABLE: Overcharge control of current (battery system)			N
Sample No.	OCV at start of test, (V dc)	Max. Charging Current, (A)	Max. Charging Voltage, (V dc)	Results

Supplementary information:

Results:

A – No fire or Explosion

B – Fire

C – Explosion

D – Overcurrent sensing function of BMU did operate and then charging stopped

E – Overcurrent sensing function of BMU did not operate and then charging stopped

F – All function of battery system did operate as intended during the test.

G – All function of battery system did not operate as intended during the test.

H – Other (Please explain): ____

8.2.4	TABLE: Overheating control (battery system)			N
Model No.	OCV at start(SOC 50%) of test, V dc	Maximum Charging Current, A	Measured Maximum Charging Voltage, V dc	

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Maximum Specified Temperature of Battery System, °C	Maximum Measured Cell Case Temperature, °C	Results
Supplementary information: Results: A – No fire or Explosion B – Fire C – Explosion D – Temperature sensing function of BMU did operate and then charging stopped E – Temperature sensing function of BMU did not operate and then charging stopped F – All function of battery system did operate as intended during the test. G – All function of battery system did not operate as intended during the test. H – Other (Please explain): _____		

9	TABLE: EMC					N
Standard used for EMC test:						
Sample No.	EMC Test Item	Battery Condition	EMC Test Level/ Parameters	Compliance Criteria	Results	

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Supplementary information:

Battery Condition During EMC test

1 – In Operation Mode, [] Supplied at _____, [] Load at _____

2 – In non-operation Mode, Battery state of charge (SOC) before test at around _____

Compliance Criteria and Test Results:

A – No fire or Explosion

B – Fire

C – Explosion

D – Battery system did operate as intended during the test.

E - All function of battery system did operate as intended after the test.

F - All function of battery system did not operate as intended during the test, (Please explain):

G - Other (Please explain): _____

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Ölçüm Cihazları / Measuring Equipments

Cihaz Adı <i>Device name</i>	Model Tipi <i>Model Type</i>	Üretici <i>Manufacturer</i>	Son Kalb. Tarihi <i>Last Cal. Date</i>	Gelecek Kalb. Tarihi <i>Next Cal. Date</i>
DC Güç Kaynağı / DC Power Supply	Sunline_SL-605D	Avrasya Elektronik Dan.İth.İhr.Paz. ve San.Tic.Ltd.Şti.	27.01.2026	27.01.2027
Multitester	M12094	Metrel	13.08.2026	13.08.2027
Yüksek Gerilim Test Cihazı / High Voltage Test Device	MT-78X	Multitech	12.08.2026	12.08.2027
Kumpas / Caliper	MC090-51	TorQ	12.08.2026	12.08.2027
Kuvvet Ölçer / Force Meter	FK 500	Sauter	30.01.2026	30.01.2027
16 Kanallı Tarayıcı Sıcaklık Ölçer / 16 Channel Scanner Temperature Meter	MT-16U	Multitech	28.04.2026	28.04.2027
Rüzgara Dayanıklı Kabin	-	-	-	-
Petrol Eteri/Petroleum Ether	ASO-46-L50	Liva	-	-
Sterilizatör / Sterilizer	FN-120	Nüve	27.01.2026	27.01.2027

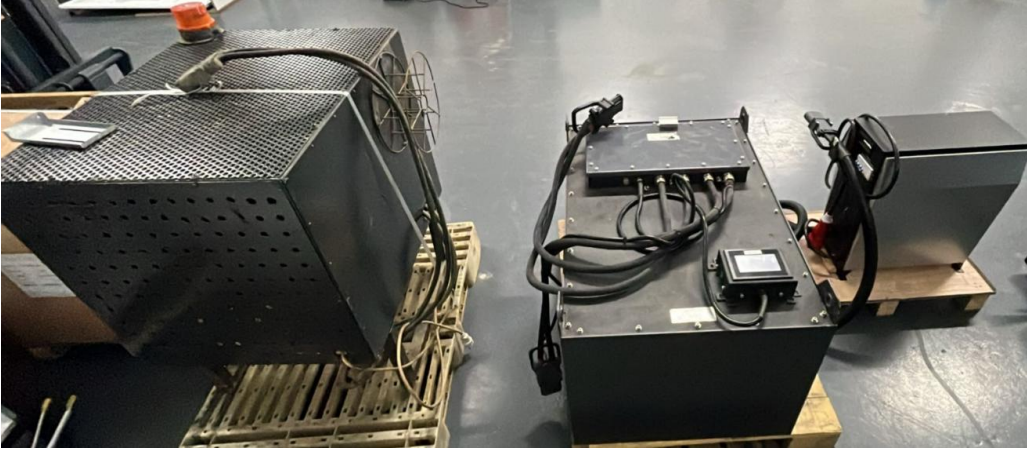
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PTC Ürün Test ve Belgelendirme San. Tic. Ltd. Şti.

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Photos of Sample



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