

Supplement Nr: 01
EU-Type Examination Certificate

(1)

(2) **Equipment or Protective Systems Intended for use in Potentially Explosive Atmospheres**

Directive 2014/34/EU

(3) EU – Type Examination Certificate Number: **IEP 21 ATEX 0962X**

(4) Product: **ATA-LB5m, ATA-LB6m, ATA-LB5L and ATA-LB6L Type Cap-Lights,**

(5) Firm Name: **LABRİS Maden ve Makina Sanayi A.Ş.**

(6) Firm Address: **Taşpınar Mahallesi İsmail Gaspıralı Caddesi No:68/1 Gölbaşı/ANKARA - TÜRKİYE**

(7) This product any of acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

(8) The IEP Uluslararası Enerji Petrol Gözetim, Sertifikasyon ve Teknik Hizmetler Organizasyonu Tic. Ltd. Sti., notified body number 2284 in accordance with Article 17 of the Directive 2014/34/EU of European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres, given in Annex II to the Directive. The examination and test results are recorded in confidential Report Nr: IEP.Rp.Ex.10-1965-1 date 17.06.2022.

(9) Compliance with Essential Health and safety requirements has been assured by compliance with ;

EN IEC 60079-0:2018, EN 60079-11:2012, EN 60079-28:2015, EN 60079-35-1:2011

(10) If the sign “ X “ is placed after the certificate number, it indicates that the product is subject to Specified Conditions of Safe Use specified in the schedule to this certificate.

(11) This EU-Type Examination Certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 2014/34/EU.

(12) The marking of the equipment or protective system shall include the following:



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Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Supplement Date of Issue : 23.06.2022





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(13) Schedule

(14) Certificate Nr: **IEP 21 ATEX 0962X**

(15) Description of Equipment:

The ATA-LB5m, ATA-LB6m, ATA-LB5L and ATA-LB6L Type miner's Cap Lamp is designed to be used for underground and above ground mining as a lighting equipment with a rechargeable battery worn on safety cap helmets by individuals. The cap lamps have 2 main systems which are the battery side and the lamp side, and between these 2 systems there is a special electrical cable which is specifically manufactured for mining applications. The battery has 3 cells and it is 3.7 V with a total of 7500 m Ah÷16000 m Ah capacity.

The batteries are lithium Ion. Moreover, battery has an overcharge and short circuit protection card which ensures a plus safety. The battery pack is fully encapsulated. The headpiece has a plastic enclosure with a glass front. The enclosure is fitted with switch to control the light intensity. The headpiece contains LEDs and electronics mounted on a printed circuit board.

(16) Technical Specifications:

Type	Battery Capacity	Led Modes	Drive current	Battery Voltage	Ambient Temperature
ATA-LB5m	7500~9000 m Ah	First Mode	630 mA	3.7 V	-10 °C to +45 °C
		Second Mode	175 mA		
		Third Mode	50 mA		
ATA-LB6m	9000~12000 m Ah	First Mode	630 mA	3.7 V	-10 °C to +45 °C
		Second Mode	175 mA		
		Third Mode	50 mA		
ATA-LB5L	10000~12000 m Ah	First Mode	630 mA	3.7 V	-10 °C to +45 °C
		Second Mode	175 mA		
		Third Mode	50 mA		
ATA-LB6L	12000~16000 m Ah	First Mode	630 mA	3.7 V	-10 °C to +45 °C
		Second Mode	175 mA		
		Third Mode	50 mA		

(17) Specific Conditions of Use (denoted by X after the certificate number)

17.1 The equipment shall only be charged when in the non-hazardous area using a charger specifically supplied for use with the unit, approved as SELV or Class 2 equipment against EN 60950, EN 61010-1 or an equivalent EN standard. The maximum voltage from the charger shall not exceed 5V DC in the range -10°C to 45°C .

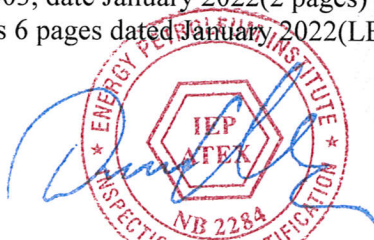
17.2 Under certain extreme circumstances, the exposed plastic of the enclosure and unearthed metal parts, such as the charging contact, will store an ignition-capable of 27.1 PF. Therefore, the user/installer shall implement precautions to prevent the build-up electrostatic charge, e.g. activities such as placing the item in a pocket or on a belt, operating a keypad or cleaning with a damp cloth.

(18) List of Documentation:

- ♦ Operation Manual : 10 pages, dated January 2022 (LB5m, LB6m, LB5L, LB6L)
- ♦ Component List : MBL-DOC-003, date January 2022(2 pages) (LB5m, LB6m, LB5L, LB6L)
- ♦ Batery and cable material properties 6 pages dated January 2022(LB5m, LB6m, LB5L, LB6L)

Responsible Person :

Nurettin Terzioğlu
Head of Certification Body



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(19) Certificate Nr: **IEP 21 ATEX 0962X**

(20) Body and Electronic circuit drawings:

LB5m

Drawing No.	Sheets	Rev.	Date	Description
MBL-LE-TD1	1	0	January 2021	Battery Protection Circuit Board Scheme
MBL-LE-TD2	1	0	January 2021	LED Circuit Board Scheme
MBL-LE-TD3	1	0	January 2021	Battery Holder Surface Dimensions
MBL-LE-TD4	1	0	January 2021	Battery Protection Circuit PCB
MBL-LE-TD5	1	0	January 2021	LED Circuit PCB
MBL-LE-TD6	1	0	January 2021	Casting Compound Areas That are Used on Circuit Board
MBL-LE-TD7	1	0	January 2021	Label design and security marking
MBL-LG-0	1	0	January 2021	Lamp body assembly
MBL-BK-0	1	0	January 2021	Battery box assembly

LB6m, LB5L, LB6L

Drawing no.	Sheets	Rev.	Date	Description
MBL-LE-TD1	1	0	March 2022	Battery Protection Circuit Board Scheme
MBL-LE-TD2	1	0	March 2022	LED Circuit Board Scheme
MBL-LE-TD3	1	0	March 2022	Battery Holder Surface Dimensions
MBL-LE-TD4	1	0	March 2022	Battery Protection Circuit PCB
MBL-LE-TD5	1	0	March 2022	LED Circuit PCB
MBL-LE-TD6	1	0	March 2022	Casting Compound Areas That are Used on Circuit Board
MBL-LE-TD7	1	0	March 2022	Label design and security marking
MBL-LG-0	1	0	March 2022	Lamp body assembly
MBL-BK-0	1	0	March 2022	Battery box assembly

(21) Additional test reports;

- ♦ IP Test Report : TSE, 610110, date May 2021
- ♦ LVD test report : LVT, 21-564-R2-N1-2, date 09.06.2021
- ♦ Standard and risk assessment report:25 pages, dated March 2022 (LB5m, LB6m, LB5L, LB6L)

The components used in the product are available in the document numbered MBL-DOC-003 and dated January 2022 (2 pages).

Periodic maintenance should be done by authorized personnel or authorized company according to the user manual and standard. In case of revision, re-approval must be obtained for use.

Certificate History;

Supplement Nr	Supplement Date	Summary Description of Variation
01	23.06.2022	Scope Addition (ATA-LB6m, ATA-LB5L and ATA-LB6L Type)
00	29.06.2021	First issue of certificate

Responsible Person :

Nurettin Terzioglu
Head of Certification Body



Supplement Date of Issue : 23.06.2022



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