



Açıklama

3-200V DC LED sistemleri için kullanılır
 Opsiyonel olarak test butonu takılabilir
 Aşırı şarj ve deşarj koruması
 Batarya kutuplarının ters bağlanmasına karşı koruma
 Yeşil LED ile şarj göstergesi
 Yüksek sıcaklığa dayanıklı H-NiCd batarya bloğu
 EN 60598-2-22 LED armatürde kullanıma uygun
 EN61347-2-7, EN61347-2-13, EN62384 standartlarına uygun
 VDE108 ile bağlantılı kullanıma uygun

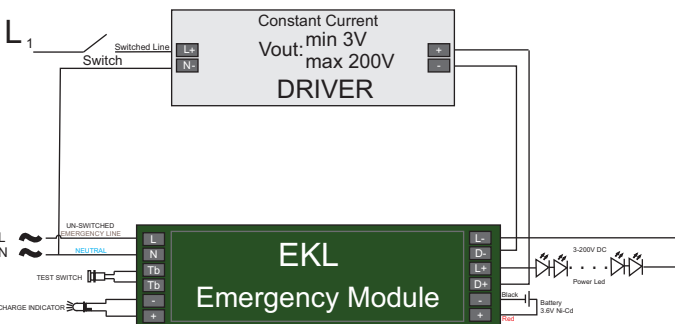
Bağlantı Şeması

Acilde / Non-Maintained



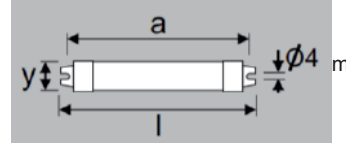
Sürekli / Maintained

Not: L ve L₁ fazları aynı faz üzerinden olmalıdır.



Aksesuarlar

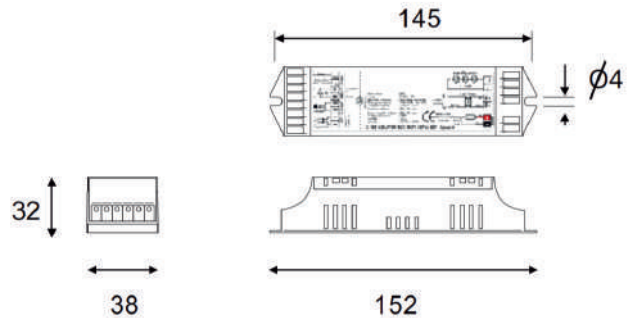
Sipariş Kodu	Açıklama	Ürün Ölçüleri			
		l	a	b	w
ENC03	Ni-Cd 3.6V 800mA	110	16	16	100 gr
ENC13	Ni-Cd 3.6V 1500mA	169	148	130	23 25 140 gr
ENC23	Ni-Cd 3.6V 2200mA	169	148	130	23 25 150 gr
ENC33D	Ni-Cd 3.6V 4000mA	204	183	165	33 35 370 gr
ECTS/NO	Test Butonu				
ECL-G55	Gösterge Ledi				



Teknik Bilgiler

Çalışma Gerilimi	: 220-230 V AC 50/60Hz ± %10
Çekilen Akım	: 0.05A
Çekilen Güç	: 4VA
Çıkış Gerilimi	: 3-200V
Çıkış Akımı	: 5mA±%10
Çalışma Sıcaklığı	: -10°C..45°C
Gövde Sıcaklığı	: 75°C
Koruma Sınıfı	: IP20
Elektrik Sınıfı	: II

Sipariş Kodu	Güç	Led	Batarya	Ölçü	Ağırlık
EKL	4 VA	3V>, <200V	Ni-Cd 3.6V	152x38x32	390 gr
ACL-G55	Şarj Gösterge Ledi				



AB UYGUNLUK BEYANI EC DECLARATION of CONFORMITY

Bu belge aşağıdaki model ürünü kapsar.
This certifies that the following designed product.

ACİL DURUM AYDINLATMA KİTİ
LED LIGHTING EMERGENCY MODULE

MODEL: EKL

Avrupa Birliği'nin elektromanyetik uyumluluk ile ilgili normlarını içeren **2014/35/EC** ve **2014/30/EC** konsey direktiflerinin gerekli koruma şartlarına uyar.
Bu beyan, üretim çizimlerine uygun olarak üretilen tüm örnekleri kapsar.

*Complies with the essential protection requirements of Council Directives 2014/35/EC and 2014/30/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.
This declaration, applies to all specimens manufactured in accordance with the attached manufacturing drawings.*

Bu belge, yukarıdaki ürünün aşağıda listelenen standartları sağladığının sorumluluğunu beyan eder
This document declares that the responsibility of the above product had provided the standards listed below

EN 61347-1:2008+A2:2013	Lamp Controlgear - Part 1: General and safety requirements
EN 61347-2-7:2012	Lamp Controlgear - Part 2-7: Particular requirements for battery supplied electronic controlgear for emergency lighting (self-contained)
EN 61347-2-13:2014	Lamp Controlgear - Part 2-13: Particular requirements for d.c. or a.c. supplied electronic controlgear for LED modules
EN 61547:2009	Equipment for general lighting purposes - EMC immunity requirements
EN 55015:2013+A1:2015	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment
EN 61000-3-2:2014	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16A per phase)
EN 61000-3-3:2013	Electromagnetic Compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuation and flicker in public low-voltage supply systems, for equipment with rated current \leq 16A per phase and not subject to conditional connection



CE işareti uygulama sırası / *Affixing of the CE marking : 01*

Bu belge ile sorumlu imalatçı *This declaration is the responsibility of the manufacturer*

ENESİS ELEKTRONİK AYDINLATMA SAN.TİC.LTD.ŞTİ

PERPA TİCARET MERKEZİ A BLOK KAT:8 NO:1060 ŞİŞLİ/ İSTANBUL, TÜRKİYE

ÜRETİCİ / MANUFACTURER

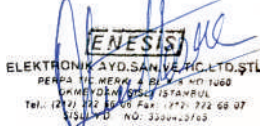
İSTANBUL -01/02/2024

(Place, Date)

TİCARİ MARKA / MARKING

ENESİS

ENESİS ELEKTRONİK AYDINLATMA SAN.TİC.LTD.ŞTİ



(Surname, forename)
(Company stamp)

Ürün Özellikleri: Acil durum aydınlatma led sürücüsü

Product specification: Electronic control gear for LED emergency lighting

İşbu beyan belirtilen talimatlara uygunluğu belgeler, özellikler ile ilgili garanti hakkı içermez.
Ürünle birlikte verilen tüm güvenlik uyarıları, montaj ve işletim talimatlarına uyulması gerekir.
This declaration certifies compliance with the indicated directives but implies no warranty of properties. All safety instructions shown on products documentation and mounting instructions etc. shall be conserved.

AB UYGUNLUK BEYANI EC DECLARATION of CONFORMITY

Bu belge aşağıdaki model ürünü kapsar.
This certifies that the following designed product.

**ŞARJ EDİLEBİLİR NİCKEL CADMIUM PİL GRUBU
RECHARGEABLE NICKEL CADMIUM BATTERY PACK**

**MODEL: ENC01, ENC03, ENC13, ENC23, ENC33
ENC04, ENC14, ENC24, ENC34
ENC25, ENC35, ENC26, ENC36**

(Product identification)

Avrupa Birliği'nin elektromanyetik uyumluluk ile ilgili normlarını içeren 2004/108/EC ve 93/68/EC konsey direktiflerinin gerekli koruma şartlarına uyar.

Bu beyan, üretim çizimlerine uygun olarak üretilen tüm örnekleri kapsar.

*Complies with the essential protection requirements of Council Directives 2004/108/EC and 93/68/EC on the approximation of the laws of the Member States relating to electromagnetic compatibility.
This declaration, applies to all specimens manufactured in accordance with the attached manufacturing drawings.*

Bu belge, yukarıdaki ürünün aşağıda listelenen standartları sağladığının sorumluluğunu beyan eder

This document declares that the responsibility of the above product had provided the standards listed below

**EN 55014-1: 2006
EN 55014-1: 2006/A1: 2009
EN 55014-1: 2006/A2: 2011
EN 61000-6-3: 2007/A1:2011
EN 55014-2: 2015**



CE işareti uygulama sırası / *Affixing of the CE marking : 01*

(Identification of regulations / standards)

Bu belge ile sorumlu imalatçı

This declaration is the responsibility of the manufacturer

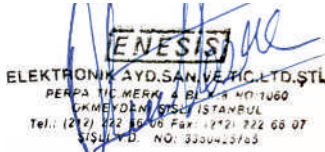
**ENESİS ELEKTRONİK AYDINLATMA SAN.TİC.LTD.ŞTİ
PERPA TİCARET MERKEZİ A BLOK KAT:8 NO:1060 ŞİŞLİ/İSTANBUL**

(Name / Address)

**ÜRETİCİ / MANUFACTURER
İSTANBUL - 11/02/2024**

(Place, Date)

**TİCARİ MARKA / MARKING
ENESİS**



*(Surname, forename)
(Company stamp)*

Ürün Özellikleri: Acil durum yönlendirme armatürü
Product specification: Emergency lighting fixture

İşbu beyan belirtilen talimatlara uygunluğu belgeler, özellikler ile ilgili garanti hakkı içermez. Ürünle birlikte verilen tüm güvenlik uyarıları, montaj ve işletim talimatlarına uyulması gerekir.

This declaration certifies compliance with the indicated directives but implies no warranty of properties. All safety instructions shown on products documentation and mounting instructions etc. shall be conserved.



TÜRK STANDARDLARI ENSTİTÜSÜ
TÜRK STANDARDLARINA UYGUNLUK BELGESİ
TURKISH STANDARDS INSTITUTION
CERTIFICATE OF CONFORMITY TO TURKISH STANDARDS

Markanın Tanımı Description of the Mark
TSE veya/or  veya/or T S E

BELGE NUMARASI REFERENCE NUMBER OF LICENCE	116914-TSE-05/01
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	26.11.2019
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	26.11.2022
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	ALTEZ ELEKTRONİK AYDINLATMA SANAYİ VE TİCARET LİMİTED ŞİRKETİ LTD. ŞTİ.
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	SULTANBEYLİ, MECİDİYE MAH.FATİH BULVARI BEY SOKAK NO.15 İSTANBUL / SULTANBEYLİ İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	ALTEZ ELEKTRONİK AYDINLATMA SANAYİ VE TİCARET LİMİTED ŞİRKETİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	MECİDİYE MAHALLESİ FATİH BULVARI BEY SOKAK NO:15 SULTANBEYLİ/İSTANBUL İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	ENESİS
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 61347-2-7 / 05.06.2012 -- TS EN 61347-1 / 23.10.2015
BELGE KAPSAMI SCOPE OF LICENCE	

EKL MODEL, 220-240 V, 50-60 Hz., 3,6 V Ni-Cd 1500 mAh Batarya ile çalışan , tc=75°C, 60 dk. (1 saat) sürekli çalışan Acil Aydınlatmada Kullanılan LED Kontrol Düzeni

e-ımalı/e-signed

25.11.2021

Belgelendirme Merkezi Başkanı Adına
AHMET NURSİ KARTAL

TSE İSTANBUL BELGELENDİRME MÜDÜRÜ

*Bu belge, belgelendirilen ürünün, üretim yerinin Enstitümüzün belirlediği şartları karşıladığını da gösterir.

*Bu belge, hiç bir suretle tahrif edilemez, kısmen veya okunmasını zorlaştıracak şekilde çoğaltılamaz, kazıntı ve silinti yapılamaz.

*TSE İSTANBUL BELGELENDİRME MÜDÜRLÜĞÜ * Adres: Çayırova Tren İstasyonu Yanı ÇAYIROVA/GEBZE * Telefon: 2627231273* Faks: 2627231606

*TSE BELGELENDİRME MERKEZ BAŞKANLIĞI; Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA – Telefon: 0 312 416 64 81 / 416 64 27, Faks:0 312 416 66 17 E-posta :bmb@tse.org.tr , web : www.tse.org.tr





T.C.
TÜRK PATENT ve MARKA KURUMU

MARKA YENİLEME BELGESİ

Marka No : 2007 68726 - Ticaret

ENESIS

Marka Sahibi : ALTEZ ELEKTRONİK AYDINLATMA SANAYİ VE TİCARET LİMİTED ŞİRKETİ
TÜRKİYE CUMHURİYETİ
Mecidiye Mh. Fatih Bulv. Bey Sk. No:15 Sultanbeyli İstanbul

Emtiası : 11
İlişiktedir.

İşbu Marka ilk defa 25/12/2007 tarihinde tescil edilmiş olup, 25/12/2017 tarihinden itibaren ON YIL süreyle yenilenmiştir.

Prof. Dr. Habip ASAN
Türk Patent ve Marka
Kurumu Başkanı



**TÜRK
PATENT**
TÜRK PATENT VE MARKA KURUMU



ALTEZ ELEKTRONİK AYDINLATMA SAN. VE TİC. LTD. ŞTİ.

MECİDİYE MAH. FATİH BULV. BEY SK. NO:15/1 SULTANBEYLİ İSTANBUL

ICS Belgelendirme, yukarıda bilgileri bulunan kuruluşun, Yönetim sisteminin aşağıda detayları

belirtilen Yönetim standardı gereklerine uygun olduğunu, belirtilen kapsamda değerlendirmiş olup, onaylamaktadır.

Standart

ISO 9001:2015

Belgelendirme Kapsamı

ACİL DURUM AYDINLATMA ARMATÜRLERİ, ACİL DURUM AYDINLATMA KİTLERİ VE ELEKTRONİK BALAST İMALAT, SATIŞ VE SERVİS HİZMETLERİ

Sertifika Numarası	: ICS-18-1002
İlk Yayın Tarihi	: 26.01.2018
Yayın / Revizyon Tarihi	: 18.01.2019
Geçerlilik tarihi	: 25.01.2020
Belge Periyodu	: 3 yıl (2.yıl)
Kapsam dışı maddeler	: 8.3



TÜRKAK BDS NO
YS-590D-DD02



Bu sertifika, ICS Belgelendirme kurallarına uyulduğu sürece geçerlidir. Belgenin sorgulanması; TBDS tarafından üretilen kare kodun, mobil cihazlarla okutulması veya TBDS Belge no ile <https://tbds.turkak.org.tr> adresinden yapılabilir.

ICS BELGELENDİRME HİZMETLERİ TİCARET LİMİTED ŞİRKETİ
Gümüşpala Mah. Gülseren Altuner Sk. No:11/1 Avclar / İstanbul / TÜRKİYE
Tel : +90 212 509 89 38 Faks : +90 212- 676 26 32 info@icsbelgelendirme.com – www.icsbelgelendirme.com



ТАМОЖЕННЫЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

Заявитель, Общество с ограниченной ответственностью «Консалтинг», лицо
уполномоченное изготовителем, ОГРН: 1157847099079

Место нахождения: 196084, Россия, город Санкт-Петербург, улица Новорошинская, дом 4,
корпус А, офис 621, Фактический адрес: 196084, Россия, город Санкт-Петербург, улица
Новорошинская, дом 4, корпус А, офис 621, Телефон: 84956468371, Факс: 84956468371, E-
mail: 84956468371@ya.ru

в лице Генерального директора Пугач Артема Федоровича

заявляет, что Светильники для аварийного освещения и светящиеся указатели, марка
«ALTEZ»

изготовитель ALTEZ ELEKTRONIK AYDINLATMA SISTEMLERI SAN. VE TIC. LTD.
STI., Место нахождения: ТУРЦИЯ, ALTEZ ELEKTRONIK AYDINLATMA SISTEMLERI
SAN. VE TIC. LTD. STI., Фактический адрес: ТУРЦИЯ, ALTEZ ELEKTRONIK
AYDINLATMA SISTEMLERI SAN. VE TIC. LTD. STI., продукция изготовлена в
соответствии с директивами № 2004/108/ЕС "Электромагнитная совместимость" от
15.12.2004 года и № 2006/95/ЕС "Низковольтное оборудование" от 12.12.2006 года
Код ТН ВЭД 8512200009, Серийный выпуск

соответствует требованиям

ТР ТС 020/2011 "Электромагнитная совместимость технических средств"; ТР ТС 004/2011
"О безопасности низковольтного оборудования"

Декларация о соответствии принята на основании

протокола испытаний № А0255-07-2015 от 15.07.2015 года, Испытательной лаборатории
общества с ограниченной ответственностью «Астория», аттестат аккредитации № РОСС
RU.0001.21МЭ68 от 28.10.2011 года по 28.10.2016 года

Дополнительная информация

Условия хранения продукции: в отапливаемых помещениях при температуре от +5 С до +40
С, относительной влажности воздуха от 60% до 80%. Срок хранения 10 лет. Срок службы 5
лет

**Декларация о соответствии действительна с даты регистрации по 27.01.2021
включительно**



А.Ф. Пугач

(инициалы и фамилия руководителя организации-
заявителя или физического лица, зарегистрированного в
качестве индивидуального предпринимателя)

Сведения о регистрации декларации о соответствии:

Регистрационный номер декларации о соответствии: ТС N RU Д-TR.AY40.B.20355

Дата регистрации декларации о соответствии: 28.01.2016



НЕКОММЕРЧЕСКОЕ ПАРТНЕРСТВО
«САМОРЕГУЛИРУЕМАЯ ОРГАНИЗАЦИЯ
СПЕЦИАЛИСТОВ ПОЖАРНОЙ БЕЗОПАСНОСТИ «ПОЖСОЮЗ»

СИСТЕМА ДОБРОВОЛЬНОЙ СЕРТИФИКАЦИИ
«БЕЗОПАСНОСТЬ И КАЧЕСТВО»
(Пожарная безопасность. Технические средства защиты)

Система зарегистрирована
Ростехрегулированием в Едином реестре
Свидетельство о регистрации
№ РОСС RU1455904.ЖР00

№ ПС 000223

СЕРТИФИКАТ СООТВЕТСТВИЯ

Срок действия с 27.12.2013 г. по 26.12.2016 г.

код ОК 005 (ОКП) 34 6180

№ ССБК TR.ПБ12.Н00230

код ЕКПС _____

код ТН ВЭД России 8512 20 000 9

Заявитель

«ALTEZ ELEKTRONİK AYDINLATMA SAN. VE TİC. LTD. ŞTİ.» Адрес:
Mecidiye Mah. Bey Sok. No 15 34930/Sultanbeyli İstanbul Турция.
Телефон: +90 216 398 42 72, факс: +90 216 398 42 97.

(наименование и местонахождение заявителя)

Изготовитель

«ALTEZ ELEKTRONİK AYDINLATMA SAN. VE TİC. LTD. ŞTİ.» Адрес:
Mecidiye Mah. Bey Sok. No 15 34930/Sultanbeyli İstanbul, Турция.
Телефон: +90 216 398 42 72, факс: +90 216 398 42 97.

(наименование и местонахождение изготовителя продукции)

Орган по сертификации

ССБК RU.ПБ12 от 14.11.2011 г., Орган по сертификации «ПСК». Адрес:
125319, г. Москва, ул. Аэропортовская 1-я, дом 6, помещение 4.

(наименование и местонахождение органа по сертификации, выдавшего сертификат соответствия)

**подтверждает, что
продукция**

Светильники для аварийного освещения и светящиеся указатели,
модели: «ALTEZ», «ENESİS», «AEC», «SPEKTRAL», выпускаемые по
технической документации изготовителя. Серийный выпуск.

(информация об объекте сертификации, позволяющая идентифицировать объект)

Соответствует требованиям

ГОСТ Р 53320-2009 «Светильники. Требования пожарной
безопасности. Методы испытаний».

(наименование документа, на соответствие которого (которых) производится сертификация)

Проведенные исследования (испытания) и измерения Протоколы сертификационных испытаний

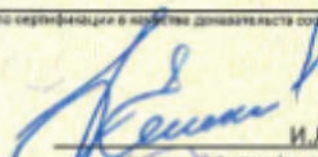
№ ППБ-223/11-2013 от 06.11.2013 г., № ППБ-225/11-2013 от 08.11.2013 г., ИЛ ООО «Пожарная
Сертификационная Компания», рег. № ССБК.RU.21ПБ10 от 14.11.2011 г., адрес: 125319, г. Москва, ул.
Аэропортовская 1-я, дом 6, корпус 6 оф. 1-4

Представленные документы


Сертификат соответствия системы менеджмента качества изготовителя требованиям ГОСТ ISO 9001-
2011 (ISO 9001:2008), № СДС.НПС.TR.001.OC.04.00061 от 17.07.2013 г., выдан ОС ООО «ЭкоМет», рег.
№ СДС.НПС.001.OC.04.

(документы, представленные заявителем в орган по сертификации в качестве доказательства соответствия продукции заявленным требованиям)

**Руководитель
(заместитель руководителя)
органа по сертификации**


И.Л. Еникеев
(подпись, инициалы, фамилия)

Эксперт (эксперты)


М.А. Максурова
(подпись, инициалы, фамилия)



TEST REPORT

This certifies that the following designed product.

ISTANBUL - 12/05/2019

EMERGENCY LIGHTING MODULE (CONVERSION KIT)

MODEL : EKLS

**BATTERY: ENC03-K Ni-Cd (1hour)
ANC13 Ni-Cd (3hours)**

(Product identification)

**EN 60925:1991 & A1, A2
EN 61347-2-7:2001**

(Identification of regulations / standards)

DURATION AND BALLAST LUMEN FACTOR

(Test subject)

Rated mains supply voltage 230 – 240 V
For led modules with a forward voltage of 3 - 80V
Mains frequency 50/60 Hz
Mains supply current 0.03 A
Mains supply power 6.6 W
Recharge period 24 hours for 1h; 48 hours for 3h;
Nominal charge current 120 mA
Nominal discharge current
• 6V 0.12A
• 20V 0.12A
• 80V 0.12A
Ambient temperature range 0 °C to +50 °C
Vibration test IEC 60068-2-6 Fh
Bump test IEC 60068-2-29 Eb
Humidity IEC 60068-2-30
High Voltage Insulation Resistance Testing : PC body

(Test conditions)

	1hour		3hours	
	Dur.	BLF	Dur.	BLF
6V	1h	0.30	3h	0.30
20V	1h	0.22	3h	0.22
80V	1h	0.19	3h	0.19

ALTEZ ELEKTRONIK AYDINLATMA LTD.STI.

MECIDIYE MAH. FATI H BULV. BEY SK. NO:15 SULTANBEYLI ISTANBUL , TURKIYE

This declaration certifies compliance with the indicated directives but implies no warranty of properties. All safety instructions shown on products documentation and mounting instructions etc. shall be conserved.

MANAGEMENT SYSTEM CERTIFICATE

Certificate No:
22 0109-2016-AE-GEER-DAkKS

Valid:
07. August 2018 - 29. March 2020

This is to certify that the management system of

GREAT POWER BATTERY CO., LTD.

No.1 Industrial Estate, Shaken, Shawan Town,
Panyu, Guangzhou City, Guangdong, P.R.China

has been found to conform to the Quality Management System standard:

ISO 9001:2015

This certificate is valid for the following scope:

Design and manufacture of Ni-Cd, Ni-Mh. & Li-Ion rechargeable batteries

Place and date:
Essen, 07. August 2018



For the issuing office:
DNV GL - Business Assurance
Schnieringshof 14, 45329 Essen, Germany


Thomas Beck
Technical Manager

BUREAU VERITAS
Certification



CERTIFICATE

Number: BV-COC-130771

Issued: July 5th 2016
Valid until: July 4th 2021

Bureau Veritas Certification certifies that the company:

GUANGZHOU GREAT POWER ENERGY & TECHNOLOGY CO., LTD.

has implemented a FSC product groups control system according to the Forest Stewardship Council certification system, in the following location:

GUANGZHOU GREAT POWER ENERGY & TECHNOLOGY CO., LTD.
NO.912,WEST VILLAGE SEGMENT, SHI LIANG ROAD, SHAWAN TOWN, PANYU, GUANGZHOU,
GUANGDONG PROVINCE P.R.CHINA
511483 – GUANGZHOU – CHINA

for its activities concerning:

Manufacturing and sales of Paper packaging for battery certified FSC Mix and FSC Recycled *

* Updated list of products & species on the FSC database (www.info.fsc.org)

This company has been assessed and found to conform to the requirements of the:

FSC Chain of Custody Certification standard, Ref.: FSC-STD-40-004 V2-1

This certificate is valid for a 5 years period.

July 5th 2016

Bureau Veritas China Certification Director:

Hubert DE BONAFOS DE BELINAY

The validity of this certificate shall be verified on: www.info.fsc.org

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified or FSC Controlled Wood. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents.

Accredited office: Bureau Veritas Certification Holding, 67/71 Boulevard du Château, 92200 Neuilly sur Seine, France: www.bureauveritas.com

FSC™ accredited certification body Accreditation Code: FSC-ACC-020

Certification decision office: Bureau Veritas Certification China, F22, Tower B, Beijing Global Trade Center, 36 North, Third Ring Road East, Dongcheng District, Beijing 100013, China

Management office: Bureau Veritas Certification China

A list of the products or services that are included in the scope of the certificate may be obtained on request to Bureau Veritas Certification.

This certificate remains the property of Bureau Veritas Certification, all copies or reproductions and the certificate itself shall be returned or destroyed on Bureau Veritas Certification request.

All certificates not in English are for reference only.

Internal ref: 3733911 – version 7.1 – Edition 1



The mark of
responsible forestry



BBCV2.MH20733 Nickel Cadmium - Component

Nickel Cadmium - Component

Guide Information

GREAT POWER BATTERY CO LTD

MH20733

1 INDUSTRIAL ESTATE

SHAKEN SHAWAN TOWN

PANYU GUANGDONG, CHINA

Model No.	Max Abnormal Charging Current mA	User Replaceable
Nickel/manganese dioxide cells.		
	500	No (a)
AAA600, AA2100, SC2800, 4/5AA1600, AA700, AA1300, AA1500, AA2500, AAA500, AAA850, AAA900, C4000, D8000 and 2/3AA600, A-2800, AA-400, AA-600, AA-900, AA-1200, AA-1600, AA-1800, AA-2000, AA-2200, AA-2300, AA-2350, AA-2400, AA-2450, AA-2600, AA-2700, AAA-550, AAA-700, AAA-800, AAA-950, AAA-1000, AAA-1100, SC-2200, SC-3000, C-1500, C-2500, D-4000, 4/5AA-800, 4/5AA-1200, 4/3A3600, H-A2100T, H-A2700, AA500, AA800, AA1100, AA1900, AA1400L, AAA400, A2100, SC2500, SC3300, SC3800, C4800, D9000, D10000		

(a) These cells and batteries are not rechargeable. The circuit containing the cells or batteries is to contain a protective component which prevents charging. The circuitry is to include a current limiting component which is intended to protect the cell or battery, in the event the protective component malfunctions, from a charging current in excess of the maximum abnormal charging current indicated.

(b) These cells and batteries are intended for use in applications subject to replacement by the user.

(c) These cells and batteries are rechargeable. The circuitry containing these cells or batteries is to contain protective components which are intended to protect the cells or batteries from currents in excess of the maximum charging current indicated.

Marking: Company name and model designation.

UL Listed and Classified Products

UL Recognized
Components

Products Certified for
Canada

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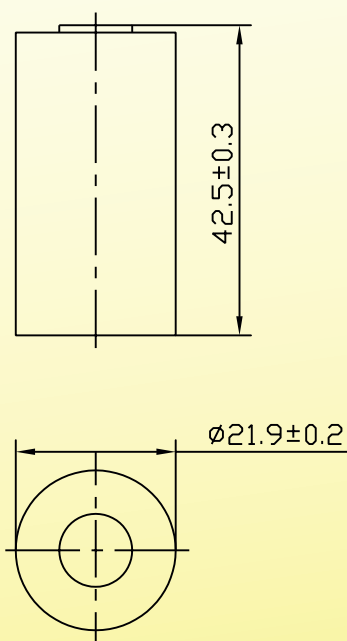
The appearance of a company's name or product in this database does not in itself assure that products so identified have been manufactured under UL's Follow-Up Service. Only those products bearing the UL Mark should be considered to be Listed and covered under UL's Follow-Up Service. Always look for the Mark on the product.

Ni-Cd rechargeable cylindrical cell (Data Sheet)

Specification

Nominal Voltage		1.2V	
Dimensions	Diameter	21.9±0.2mm	
	Height	42.5±0.3mm	
	Apx. Weight	50g	
0.2C Discharge Capacity	Typical	1550mAh	
	Minimum	1500mAh	
Typical Internal Impedance		Less than 20mΩ	
Charge	Standard	200mA for 16 hrs	
	Fast	1000mA for about 150min	
Life expectancy		500 cycles	
Operating Temperature	Charge	Standard	0°c to 40°c
		Fast	10°c to 40°c
	Discharge		-10°c to 50°c
	Storage	< 1 year	-10°c to 30°c
< 3 months		-10°c to 40°c	

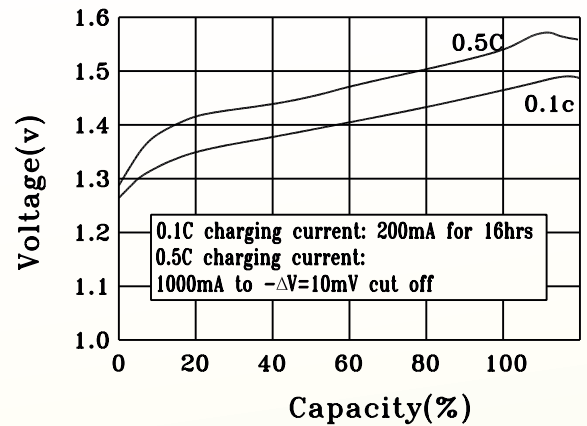
(CELL DIMENSIONS)



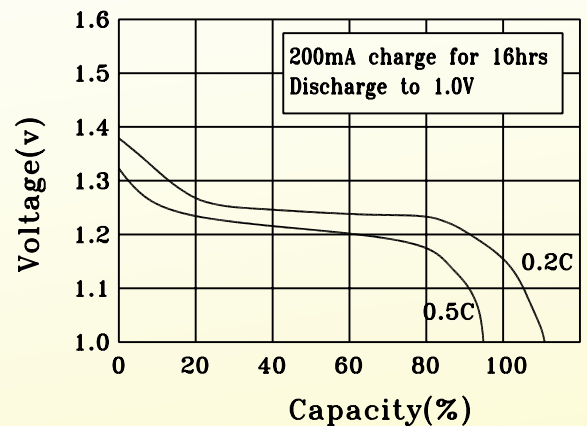
(With tube)

1:1

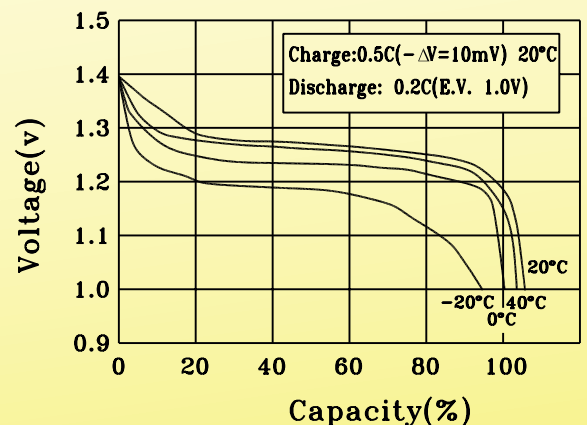
CHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS AT DIFFERENT TEMPERATURE





TEST REPORT



AB-0505-T

72172560135

15.09.2017

LAB LOCATION: TURKEY
LAB NO. : (7217)256-0135
SERVICE TYPE: Regular
DATE IN: September 13th, 2017
DATE OUT: September 15th, 2017

MATERIAL SUBMITTED : TC EKONOMİ BAKANLIĞI MARMARA BOLGE
MUDURLUGU
(Attn: Hasan Uzun)

IMPORTER COMPANY : ALTEZ ELEKTRONİK AYD. SAN. ve TIC. LTD. STI.
MODEL NO : T-AA 1000mAh (ANC 01)
COVER LETTER NO : 36422585331.01.01-E.28010
SUPPLIER REFERENCE : /
ORDER NO : /
SAMPLE RECORD NO : 1370
APPLICATION NO : A23078997
BRAND NAME : /
BUYER : /
COUNTRY OF ORIGIN : /
SAMPLE DESCRIPTION : **Sample A: BATTERY**

COLOR : /
GENERAL CONCLUSION : PASS

SUMMARY OF TEST RESULTS

TEST REQUIRED	
Heavy Metals Content In Other Batteries And Accumulators (for only Hg)	A
	P
*TURKAK ACCREDITED TESTS	

P: PASS

F: FAIL

REMARK 1* = The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty measurement has not been taken into account when assessing pass/fail the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline.

The test result, the uncertainties (if applicable) with confidence probability are given on the following pages which are part of this report.

EXECUTIVE SUMMARY: Only vendor selected tests have been performed and submitted sample has been rated as 'PASS'.

C/N PC/EY

PAGE 1 OF 4

BV CPS TEST LABORATUVARLARI LTD. STI.
BUREAU VERITAS CONSUMER PRODUCTS SERVICES
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TEST RESULTS

Total Heavy Metals Content in Other Batteries and Accumulators European Parliament and Council Directive 2006/66/EC with Latest Amendment, Articles 4 and 21

Test Item(s)	Item / Component Description(s)
Sample A	Battery

Test Item A:	Battery	Total weight:	21 g
--------------	---------	---------------	------

Test Method CP SDBV In House Test Method CP SDAN00078W With the Reference to IEC 62321:2008

Requirement(s):	
Parameter(s)	Limit
Total Mercury (Hg)	Not more than 0.0005 %

Test Item(s)	A	
Parameter	Unit	Result
Total Mercury (Hg)	%	<0.0005
Conclusion		PASS

Note / Key :

"<" = Less than
% = percent
mg/kg = milligram(s) per kilogram = ppm = part(s) per million

">" = Greater than
1 % = 10 000 mg/kg

Detection Limit: % 0.0001

Remark :

- Other batteries and accumulators mean any battery, battery pack or accumulator that is (1) not button and (2) not portable battery and accumulator except intended for use in medical equipment, cordless tools and emergency and alarm systems, including emergency lighting. After December 31, 2016, portable battery(ies) and accumulator(s) that is (are) intended for use in cordless power tools will no longer be allowed to comply with this requirement(s), but to comply with another total heavy metals content requirement(s) for portable batteries and accumulators.
- Apart from this total heavy metals content requirement(s), other battery(ies) and (or) accumulator(s) (have) to comply together with the appropriate labelling requirement(s) as specified in European Parliament and Council Directive 2006/66/EC with Latest Amendment, Article 21.
- ^[d] denotes as other battery(ies) and (or) accumulator(s) with total cadmium content exceeding 0.001 % (have) to comply with the appropriate labelling requirement(s) as specified in European Parliament and Council Directive 2006/66/EC with Latest Amendment, Article 21.
- ^[e] denotes as other battery(ies) and (or) accumulator(s) with total lead content exceeding 0.004 % (have) to comply with the appropriate labelling requirement(s) as specified in European Parliament and Council Directive 2006/66/EC with Latest Amendment, Article 21.

- END OF REPORT -