



SEK
SEK



Sıvaüstü montaj Opal cam armatür Surface mounted glass fixture

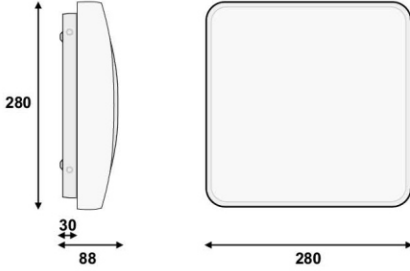
Özellikler

- * Saç gövde üzeri buzlu opal cam kapak
- * Sensörlü ve acil aydınlatmalı
- * Sıvaüstü montaj
- * Yüksek sıcaklığa dayanıklı Nickel Cadmium veya Lityum Ion pil
- * Normalde 2500lm, acil durumda 330lumene kadar
- * Acil durumda 3 saat yanabilme
- * Acil durum ledleri sadece 6500K
- * Tırnak anahtar ile keskin ayarlanabilen algılama mesafesi, zaman ve aydınlık seviyeleri
- * Tüm aksesuarları ile kolay montaj
- * EN 60598-2-22, EN55014, EN60669-2-1, EAC ve CE normlarına uygun
- * Yangın fazyı uygulaması seçeneği

Features

- * Opal glass covered steel sheet body
- * Emergency and sensor lighting
- * Easy mounting on surface
- * High temperature Nickel-Cadmium or Li-Ion batteries
- * 2500lm on mains, to 330lm on emergency lighting
- * Emergency operation time 3 hours
- * Led of emergency operation CCT 6500K
- * Adjustable with deepswitch time relay, lighting level and sensing distance
- * Easy installation with all accessory
- * EN 60598-2-22, EN55014, EN60669-2-1, EAC and CE certified
- * Optional for fire alarm line

SEK



Teknik Bilgiler

Technical Data

Çalışma gerilimi	Working voltage	: 230 V AC 50/60Hz ±%10
Şebekeden çekilen akım	Mains supply current	: 0.060A
Şebekeden çekilen güç,	Mains supply power	: Led 12W, Sensor 0.9W, Led 2.4W (Emg.)
Şarj süresi,	Charge duration	: 24 h
Yüksek Frekans	HF System	: 2 Ghz. CW Radar
Algılama,	Detection	: 360°, 160°open angle
Erişim Mesafesi ayarı,	Reach	: 1 - 8m infinitely variable
Zaman Ayarı,	Time setting	: 10 - 180sec.
Çalışma sıcaklığı,	Amp.temp.	: -10°C . . 45°C
Işık çıkış akısı,	Light output	: Mains (AB/A/B) 2500/1050/1300lm; Non-maintained (NiCd/Li-Ion) 90lm/330lm
Gövde sıcaklığı,	Case temp.	: 75°C
Koruma Sınıfı,	Protection grade	: IP40
Elektrik Sınıfı,	Electrical classification	: I
Batarya kapasitesi,	Battery capacity	: Ni-Cd:1.2V 1,5Ah; Li-Ion 3.7V 2Ah

Renk Sıcaklığı,

CCT

XW :

CW : Soğuk beyaz, Cool White 6500K

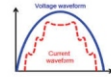
NW : Nötr beyaz, Neutral White 4000K

WW : Sıcak beyaz, Warm White 3000K

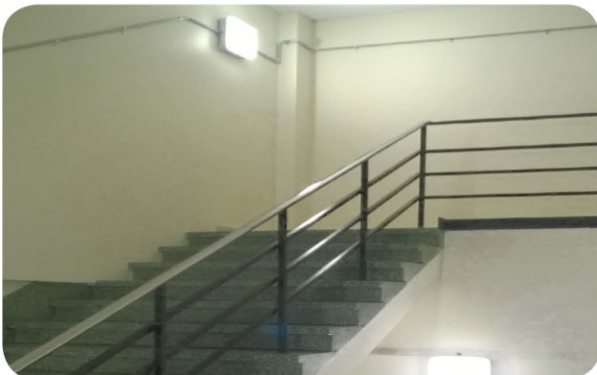
Mounting height	Type of mounting	Mounting distance (m)			
		1lux (0.5lux)			
		Ni-Cd(90lm)	Li-Ion(330lm)	Ni-Cd(90lm)	Li-Ion(330lm)
2.5	Ceiling mounting	2.3 (3.3)	2.9 (4.0)	6.1 (8.2)	6.7 (8.8)
3.0		2.1 (3.1)	2.7 (3.7)	5.8 (7.8)	6.4 (8.4)
4.0		1.9 (2.9)	2.5 (3.5)	5.5 (7.5)	6.1 (8.1)
5.0		1.7 (2.7)	2.3 (3.3)	4.2 (7.2)	4.8 (7.8)
2.5		Wall mounting	1.9 (2.9)	2.5 (3.5)	5.2 (7.1)
3.0	1.7 (2.8)		2.3 (3.4)	3.7 (6.7)	4.3 (7.3)
4.0	1.5 (2.7)		2.1 (3.3)	3.2 (6.3)	3.8 (6.9)



OSRAM



High Power Factor
Low ATHD
High Efficiency



Kod, Code	Güç-Çalışma Şekli, Power-Working Shape	Süre, Duration	Batarya, Battery	Işık Akısı, Flux	Ölçü, Dimension	Ağırlık, Weight	Fiyat, Price
SEK-R3-26-XW-3N	26W Led+Sensör+Kit	3h	Ni-Cd 1.2V 1A	2500lm / 90lm	280X280X80	950gr.	88\$
SEK-R3-26-XW-3L	26W Led+Sensör+Kit	3h	Li-Ion 3.7V 2A	2500lm / 330lm	280X280X80	950gr.	93\$
SEK-R3-10-XW-3N	10W Led+Sensör+Kit	3h	Ni-Cd 1.2V 1A	1000lm / 90lm	280X280X80	900gr.	70\$
SEK-R3-10-XW-3L	10W Led+Sensör+Kit	3h	Li-Ion 3.7V 2A	1000lm / 330lm	280X280X80	900gr.	77\$
SEK-R3-26-XW	26W Led+Sensör			2500lm	280X280X80	950gr.	85\$
SEK-R3-10-XW	10W Led+Sensör			950lm	280X280X80	950gr.	68\$
SEK-10-XW-3N	10W Led+Kit	3h	Ni-Cd 1.2V 1A	1000lm / 90lm	280X280X80	850gr.	66\$
SEK-10-XW-3L	10W Led+Kit	3h	Li-Ion 3.7V 2A	1000lm / 330lm	280X280X80	850gr.	71\$
SEK-13-XW	13W Led			1250lm	280X280X80	800gr.	43\$
SEK-6-XW	6W Led			500lm	280X280X80	800gr.	38\$

AB UYGUNLUK BEYANI EC DECLARATION of CONFORMITY

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

**SENSÖRLÜ, ACİL DURUM AYDINLATMALI LED ARMATÜRÜ
EMERGENCY LED LIGHTING FIXTURE WITH MOTION SENSOR**

MODEL: SENSOR EMERGENCY LIGHTING

SERİSİ / SERIES : SEC, SES, SED, SEZ.,SEK.,SEN.,SEY.,SEH.,SEP

(Product identification)

Avrupa Birliğinin elektromanyetik uyumluluk ile ilgili normlarını içeren **2004/108/EC** ve **2006/95/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 2006/95/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 55015: 2016 **EN 60598-2-22: 2014** **and other Standarts**
EN 61000-3-2: 2014 **EN 60598-1: 2015** **TS ISO 7010: 2012/A5: 2015**
EN 61000-3-3: 2013 **EN 61347-2-7: 2012** **TS ISO 3864-1: 2011**
EN 61547: 2009 **EN 61347-1: 2014**



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

ALTEZ ELEKTRONİK AYDINLATMA SAN.VE TIC. LTD.STI.

**MECİDİYE MH. FATİH BULV. BEY SK. NO:15
SULTANBEYLİ İSTANBUL, TÜRKİYE**

(Name / Address)

ÜRETİCİ / MANUFACTURER
İSTANBUL - 07/04/2017

(Place, Date)

ALTEZ ELEKTRONİK AYD. LTD. STI.



(Surname, forename)
(Company stamp)

TİCARİ MARKA / MARKING



Ürün özellikleri: Acil durum aydınlatma 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.

AB UYGUNLUK BEYANI EC DECLARATION of CONFORMITY

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

**ŞARJ EDİLEBLİR NİKEL CADMIUM PİL GRUBU
RECHARGEABLE NICKEL CADMIUM BATTERY PACK**

MODEL: ANC01, ANC02

(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: 2007 + A1: 2011 + A2: 2012

EN 61000-6-3: 2007 + A1:2006

EN 55014-2: 1997 + A1: 2001

EN 62133: 2014



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

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

MECİDİYE MH. FATİH BULV. BEY SK. NO:15

SULTANBEYLİ İSTANBUL, TÜRKİYE

(Name / Address)

İTHALATÇI / IMPORTER

İSTANBUL - 07/04/2017

(Place, Date)

ALTEZ ELEKTRONİK AYD. LTD. ŞTİ.



Elektronik Aydınlatma
SARILIBAŞI YOLU 15. SK. NO: 15
34090 SULTANBEYLİ / İSTANBUL / TÜRKİYE
Tel: 0212 250 2500 / Faks: 0212 250 2501

(Surname, forename)

(Company stamp)

TİCARİ MARKA / MARKING

ALTEZ

Ürünün özellikleri: Nickel Cadmium şarjilebilir pil bloğu
Product specification: Ni-Cd rechargeable battery

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.



T.C.
TÜRK PATENT ENSTİTÜSÜ

MARKA TESCİL BELGESİ

Marka No : 2014 51893 - Ticaret - Hizmet

ALTEZ

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

Emtiası : 09 , 11 , 35 , 37
İlişiktir.

Markaların Korunması Hakkında 556 Sayılı Kanun Hükmünde
Kararnameye göre 19/06/2014 tarihinden itibaren ON YIL müddetle
26/03/2015 tarihinde tescil edilmiştir.

Prof. Dr. Habip ASAN
Enstitü Başkanı





T.C.
TÜRK PATENT ENSTİTÜSÜ

MARKA TESCİL BELGESİ

Marka No : 2015 54518 - Ticaret - Hizmet



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

Emtiası : 09 , 11 , 12 , 35 , 39
İlişiktir.



Markaların Korunması Hakkında 556 Sayılı Kanun Hükmünde
Kararnameye göre 10/07/2015 tarihinden itibaren ON YIL müddetle
03/05/2016 tarihinde tescil edilmiştir.

Prof. Dr. Habip ASAN
Enstitü Başkanı

sistem^{er}

Sertifika

certificate of registration

KALİTE SİSTEM SERTİFİKASI

Bu sertifika aşağıdaki kuruluşa

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

Mecidiye Mh. Fatih Bulvarı Bey Sk. No:15 Sultanbeyli/İSTANBUL/TÜRKİYE

Uygulanmakta olan yönetim sisteminin

TS EN ISO 9001:2008

standardına uygunluğunu belgelemek amacı ile
aşağıda belirtilen kapsamda verilmiştir.

**Acil Durum Aydınlatma Armatürleri, Acil Durum Aydınlatma Kitleri ve
Elektronik Balast İmalat, Satış ve Servis Hizmetleri**

EA Kod:19
Kapsam Dışı: 7.3

Sertifika No: KYS-2294

Yayın Tarihi:08/02/2016

Bitiş Tarihi: 07/02/2017

Belge Periyodu: 3 yıl (1. yıl)



Kalite Yönetim Sistemi
TS EN ISO/IEC 17021
AB-0024-YS

GM:

Bu sertifikayı geçerli kılan
SİSTEMER Belgelendirme kurallarına uygunluk ve
yılı en az bir kez yapılacak güncelleme denetimlerinin
başarıyla gerçekleştirilmesine bağlıdır. Belgelerin geçerliliği
www.sistem^{er}.com adresinden kontrol edilebilir.



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

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

BELGE NUMARASI REFERENCE NUMBER OF LICENCE	116914-TSE-02/01
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	16.08.2016
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	26.03.2018
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	ALTEZ ELEKTRONİK AYDINLATMA SANAYİ VE TİCARET LIMITED 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 AYD. SAN.TİC.LTD.ŞTİ
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	MECİDİYE MAH. FATİH BULV. BEY SOK. NO.15 SULTANBEYLİ İSTANBUL / TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	ALTEZ
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 61347-2-7 / Lâmba kontrol düzeni - Bölüm 2-7: Acil aydınlatmada kullanılan d.a. beslemeli elektronik balastlar için ilgili özellikler / 05.06.2012 -- TS EN 61347-1 / Lâmba kontrol düzeni - Bölüm 1: Genel ve güvenlik özellikleri / 04.02.2010 -- TS EN 61347-1/A1 / Lâmba kontrol düzeni - Bölüm 1: Genel ve güvenlik özellikleri / 19.01.2010 -- TS EN 61347-1/A2 / Lâmba kontrol düzeni - Bölüm 1: Genel ve güvenlik özellikleri / 12.06.2013
BELGE KAPSAMI SCOPE OF LICENCE	

AC3 MODEL, 220-240 V, 50/60Hz, 4W-8W-18W-36W FLORESAN LAMBALARLA KULLANILAN, 3.6V-1500mAh Ni-Cd BATARYALI, tc=70°C, ACIL AYDINLATMADA KULLANILAN D.A BESLEMELİ ELEKTRONİK BALAST (ACIL)



15/05/2017
HAKAN DENİZ
TSE İSTANBUL BELGELENDİRME
MÜDÜRÜ

*Bu belge, belgeleNDİren ürünün, imza ve mühürle Enstitüden talep edildiği şartları karşıladığını da gösterir.
*Bu belge hiç bir surette tahrif edilemez, değiştirilemez veya okunmazlık zorlaştırıcak şekilde çoğaltılamaz, kopyası ve sairini yapılamaz.
*TSE İSTANBUL BELGELENDİRME MERKEZİ BAŞKANLIĞI * Adres: Çayyova Tren İstasyonu Yanı ÇAYIROVA/ERZURUM * Tel: 2627231273 * Faks: 2627231906
*TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI Adres: Necatîbey Cad. No:112 06100 Beşiktaş/İSTANBUL * Tel: 0 312 416 64 61 / 416 64 27, Faks: 0 312 416 60 17
e-posta : tseb@tse.org.tr , web : www.tse.org.tr



Zeichengenehmigungsausweis Nr.: 15 100 96522
Mark - Approval Certificate No.: 15 100 96522

Genehmigungsinhaber <i>Licence holder</i>	ALTEZ ELEKTRONİK AYD. SAN VE TİC. LTD. ŞTİ.
Unternehmensstandort <i>Company location</i>	Eyüp Sultan Mah. Asalet Sok. No:7 Samandıra Kartal / İstanbul - Turkey

TIC-Zeichen: <i>TIC mark:</i>	
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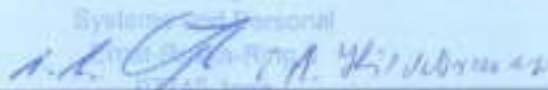
Dienstleistung/ Managementsystem: <i>Service / Management system</i>	Manufacturing and sales of emergency lighting systems and LED systems
Auditbericht: <i>Audit report</i>	3330 2EXP A0
Vertrag über die Zertifizierung <i>Contract concerning certification</i>	2009-10-01

Die oben aufgeführte Dienstleistung / das oben aufgeführte Managementsystem erfüllt die in den zugrunde liegenden Regelwerken gestellten Anforderungen. Die Genehmigung, das TIC-Zeichen gemäß den Vertragsbedingungen zu verwenden, wird hiermit erteilt. Dieser Zeichengenehmigungsausweis bleibt Eigentum der Zertifizierungsstelle für Systeme und Personal des TÜV Thüringen e.V.

The above mentioned service / management system complies with the demands outlined in the regulation basis. Permission to use the TIC-mark in accordance with the conditions of the contract is hereby granted. This mark approval certificate remains property of the Certification body for systems and personnel of TÜV Thüringen e.V.

Dieser Ausweis gilt bis zum: <i>This certificate is valid until</i>	Entsprechend der Gültigkeit des Zertifikates 15 100 96522
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TÜV Thüringen e.V.
 Service Center Ostthüringen
 Zertifizierungsstelle
 Systeme und Personal



TÜV Thüringen e.V. Zertifizierungsstelle für Systeme und Personal <i>TÜV Thüringen e.V.</i> <i>Certification body for systems and personnel</i>	Dieser Ausweis besteht aus 1 Seite. <i>This certificate consists of 1 page.</i>
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CERTIFICATE

ELECTROMAGNETIC COMPATIBILITY

Applicant : Altez Elektronik Aydınlatma San ve Tic Ltd. Şti.
Contact person : Mr. İlhan Taşbaş
Address : Mecidiye Mah. Bey Sok. No:15 Sultanbeyli
Postal code, Place : 34930, İstanbul
Country : Turkey

Manufacturer : Altez Elektronik Aydınlatma San ve Tic Ltd. Şti.
Address : Mecidiye Mah. Bey Sok. No:15 Sultanbeyli
Postal code, Place : 34930, İstanbul
Country : Turkey

Electrical apparatus : Emergency Lighting Unit
Trademark : ALTEZ
Type designation : AC3, AC4, AC5, AC5S, ACP, ACFT, ASER, EKA, EKB, ACM, ACN

Environment : Residential, commercial, light industrial

EN 55015:2006 Emission for lighting equipment
+A1:2007

EN 61000-3-2:2006 Harmonic current emissions
EN 61000-3-3:1995 Limitation of voltage fluctuations and flicker
+A1:2001, A2:2005

EN 61547:1995 Product group immunity standard lighting equipment from which;
+A1:2000

EN 61000-4-2:1995 Electrostatic discharge (ESD) immunity
+A1:1998, A2:2001

EN 61000-4-3:2006 Radiated Electro-Magnetic field immunity
EN 61000-4-4:2004 Electrical fast transient (EFT) immunity
EN 61000-4-5:2006 Surge transient immunity
EN 61000-4-6:2007 Conducted Radio-Frequency disturbances immunity
EN 61000-4-8:1993 Power frequency magnetic field immunity
+A1:2001

EN 61000-4-11:2004 Immunity to voltage dips and short interrupts

The undersigned declares that the described products meet the essential requirements of the **EMC Directive 2004/108/EC**, based on a non-recurrent examination. The results are recorded in our test report with reference 2127120.0501-QUA/EMC

KEMA Quality B.V.
(Notified Body EMC)
Arnhem, July 19, 2012



A.T. van der Meijden
Certification Manager EMC

Certificate nr. 2127120.0551-QUA/EMC

Integral publication of this certificate and adjoining reports is allowed.

KEMA Quality B.V. Utrechtseweg 310, 6812 AR Arnhem P.O. Box 5185, 6802 ED Arnhem The Netherlands
T +31 26 3 56 20 00 F +31 26 3 52 58 00 customer@kema.com www.kema.com Registered Arnhem 09085396



ТАМОЖЕННЫЙ СОЮЗ ДЕКЛАРАЦИЯ О СООТВЕТСТВИИ

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

Место нахождения: 196084, Россия, город Санкт-Петербург, улица Новорощинская, дом 4,
корпус А, офис 621, Фактический адрес: 196084, Россия, город Санкт-Петербург, улица
Новорощинская, 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



NATIONAL QUALITY ASSURANCE

Certificate of Registration

This is to certify that the Quality Management System of

GREAT POWER BATTERY CO., LTD.

**NO.1 INDUSTRIAL ESTATE, SHAKENG, SHAWAN TOWN, PANYU
DISTRICT, GUANGZHOU CITY, GUANGDONG PROVINCE,
PEOPLE'S REPUBLIC OF CHINA**

applicable to

**DESIGN, MANUFACTURE AND SALE OF NI-MH, NI-CD
RECHARGEABLE BATTERIES**

has been assessed and registered by
National Quality Assurance Limited against the provisions of

ISO9001: 2010

This registration is subject to the company maintaining a quality management
system, to the above standard, which will be monitored by NQA.

To maintain the validity of this certificate, the periodic surveillance shall be monitored by
certification body. Please consulting the website: www.snqa.com.cn

The Seal of National Quality Assurance Limited
was hereto affixed in the presence of:

Managing Director



015

Certificate No: 518365
Date: 25 August 2016
Valid Until: 25 August 2018
EAC Code: 19





SGS-CSTC Standards Technical Services Co., Ltd.

No. 1 Workshop, M-10, Middle Section, Science & Technology Park,
District Shenzhen, China 518057

Telephone: +86 (0) 755 2601 2053
Fax: +86 (0) 755 2671 0594
Email: sgs_internet_operations@sgs.com

Report No.: SZEMO964601249TXE
Page: 1 of 13

TEST REPORT

Application No.: SZEMO964601249TX
Applicant: Great Power Battery (Zhuhai) Co., Ltd
Equipment Under Test (EUT):
EUT Name: Ni-Cd
Item No.: AA, AAA, SC, C, D
▲ Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.
Standards: EN 55014-1:2000 + A1; 2001 + A2; 2002
EN 61000-6-3: 2001 + A11; 2004
EN 55014-2: 1997 + A1; 2001
Date of Receipt: 12 June 2014
Date of Test: 19 June 2014
Date of Issue: 20 June 2014

Test Result :	PASS*
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* In the configuration tested, the EUT detailed in this report complied with the standards specified above. Please refer to section 2 of this report for further details

The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EC Declaration of Conformity and compliance with all relevant EC Directives

Robinson Lo
Laboratory Manager



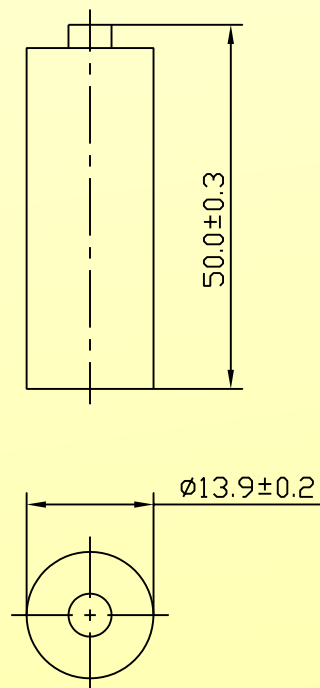
This report refers to the General Conditions for Inspection and Testing Services, printed overleaf.
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the SGS PRODUCT CERTIFICATION MARK. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.
This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.
All test results in this report can be traceable to National or International Standards.

Ni-Cd rechargeable cylindrical cell (Data Sheet)

Specification

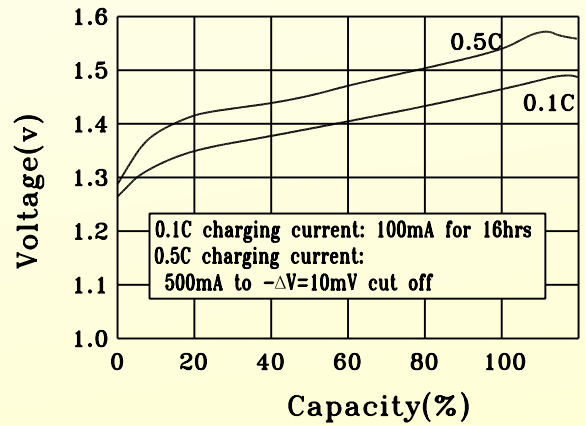
Nominal Voltage		1.2V	
Dimensions	Diameter	13.9±0.2mm	
	Height	50.0±0.3mm	
	Apx. Weight	24g	
0.2C Discharge Capacity	Typical	1050mAh	
	Minimum	1000mAh	
Typical Internal Impedance		Less than 30mΩ	
Charge	Standard	1000mA for 16 hrs	
	Fast	500mA for about 150min	
Life expectancy		500 cycles	
Operating Temperature	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)

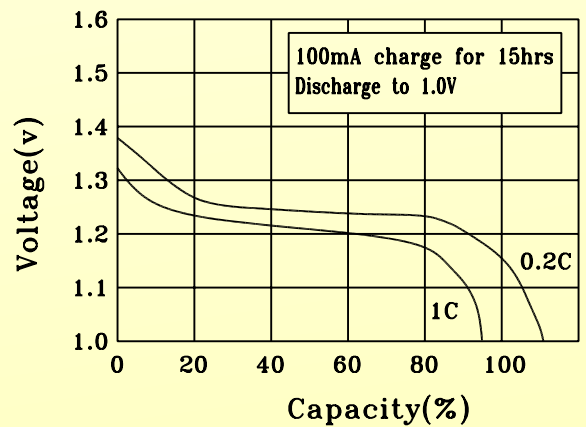


(With tube)

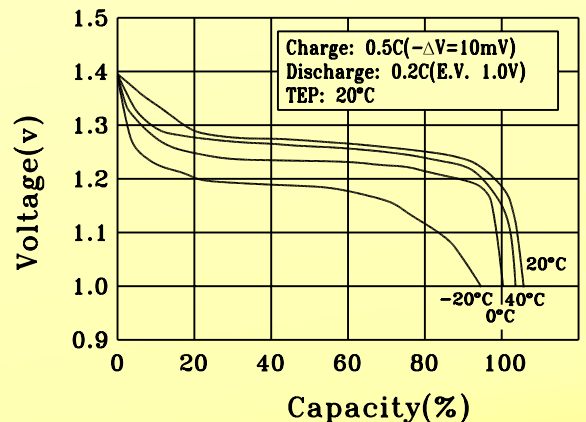
CHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS



DISCHARGE CHARACTERISTICS AT DIFFERENT TEMPERATURE





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 W**



BELGE NUMARASI REFERENCE NUMBER OF LICENCE	14.0.10.0.01.00/TSE-65334
BELGENİN İLK VERİLİŞ TARİHİ DATE OF FIRST ISSUE OF LICENCE	14.07.2009
BELGENİN SON GEÇERLİLİK TARİHİ LICENCE VALID UNTIL	12.07.2018
BELGE SAHİBİ KURULUŞUN ADI NAME OF THE LICENCE HOLDER	DEMAŞ KABLO SAN. VE TİC. A.Ş.
BELGE SAHİBİ KURULUŞUN ADRESİ ADDRESS OF THE LICENCE HOLDER	TATLISU MAH. ALPTEKİN CAD. NO:13/3 ÜMRANIYE/ İSTANBUL/TÜRKİYE
ÜRETİM YERİ ADI NAME OF THE MANUFACTURING PLACE	DEMAŞ KABLO SAN. VE TİC. A.Ş.
ÜRETİM YERİ ADRESİ ADDRESS OF THE MANUFACTURING PLACE	AKSE MAH. 538.SOK. NO:12 ÇAYIROVA/KOCAELİ KOCAELİ/TÜRKİYE
İPTAL EDİLEN BELGE NUMARASI (Varsa) INDICATION OF SUPERSEDED LICENCE (if any)	14.10.01/TSE-13402
TESCİLLİ TİCARİ MARKASI REGISTERED TRADE MARK	DEMAŞ KABLO
İLGİLİ TÜRK STANDARDI RELATED TURKISH STANDARD	TS EN 50525-2-11:2011 / Elektrik Kabloları - Beyan gerilimi en çok 450 / 750 V dahil olan düşük gerilimli enerji kabloları- Bölüm 2-11-Genel uygulamalar için kablolar-Thermoplastik PVC yalıtımlı Bükülgen Kablolar (Kordonlar) / 22.11.2011
BELGE KAPSAMI SCOPE OF LICENCE	

PVC YALITIMLI VE KILIFLI OLAĞAN BÜKÜLGEN KABLOLAR

H05VV-F



02.05.2017

HÜSEYİN CEMEK

ELEKTROTEKNİK SEKTÖRÜ
MÜDÜRÜ V.

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

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

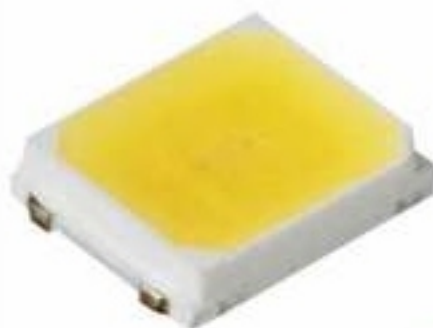
*TSE Elektroteknik Sektörü Müdürlüğü * Adres: Necatibey Cad.No:112 06100 Bakanlıklar/ANKARA * Tel: 0312 416 63 96* Faks: 0312-416 66 17

*TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI, Adres: Necatibey Cad. No:112 06100 Bakanlıklar/ANKARA - Tel: 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

Mid-Power LED - 3528 Series

STW8A12D – 0.5W (Cool, Neutral, Warm)

**Product Brief****Description**

- This White Colored surface-mount LED comes in standard package dimension. Package Size: 3.5x2.8x0.7mm.
- It has a substrate made up of a molded plastic reflector sitting on top of a lead frame.
- The die is attached within the reflector cavity and the cavity is encapsulated by silicone.
- The package design coupled with careful selection of component materials allow these products to perform with high reliability.

Features and Benefits

- Market Standard 3528 Package Size
- High Color Quality, CRI Min. 80
- RoHS compliant

Key Applications

- Interior lighting
- General lighting
- Indoor and outdoor displays
- Architectural / Decorative lighting

Table 1. Product Selection Table

Part Number	CCT			
	Color	Min.	Typ.	Max.
STW8A12D	Cool White	4700K	5600K	7000K
STW8A12D	Neutral White	3700K	4200K	4700K
STW8A12D	Warm White	2600K	3000K	3700K

Performance Characteristics

Table 2. Product Selection Guide, $I_F = 150\text{mA}$, $T_J = 25^\circ\text{C}$, RH30%

Part Number	CCT (K) ⁽¹⁾	RANK	Luminous Intensity ⁽²⁾		Luminous Flux ⁽³⁾		CRI
			I_V (cd)		Φ_V (lm)		R_a
	Typ.		Min	Max	Min	Max	Min.
STW8A12D	6500	J16	16.0	18.0	49.6	55.8	80
		J18	18.0	20.0	55.8	62.0	80
	5600	J16	16.0	18.0	49.6	55.8	80
		J18	18.0	20.0	55.8	62.0	80
	5000	J18	18.0	20.0	55.8	62.0	80
		K20	20.0	22.0	62.0	68.2	80
	4500	J18	18.0	20.0	54.0	60.0	80
		K20	20.0	22.0	62.0	68.2	80
	4000	J18	18.0	20.0	54.0	60.0	80
		K20	20.0	22.0	62.0	68.2	80
	3500	J16	16.0	18.0	48.0	54.0	80
		J18	18.0	20.0	54.0	60.0	80
	3000	J16	16.0	18.0	48.0	54.0	80
		J18	18.0	20.0	54.0	60.0	80
	2700	J16	16.0	18.0	48.0	54.0	80
		J18	18.0	20.0	54.0	60.0	80

Notes :

(1) Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram.

(2) Seoul Semiconductor maintains a tolerance of $\pm 7\%$ on Intensity and power measurements.

The luminous intensity I_V was measured at the peak of the spatial pattern which may not be aligned with the mechanical axis of the LED package.

(3) The lumen table is only for reference.

Performance Characteristics

Table 3. Characteristics, $I_F=150\text{mA}$, $T_j= 25^\circ\text{C}$, RH30%

Parameter	Symbol	Value			Unit
		Min.	Typ.	Max.	
Forward Current	I_F	-	150	180	mA
Forward Voltage	V_F	-	3.2	3.5	V
Luminous Intensity ^[1] (2,700K) ^[2]	I_v	-	18.2	-	cd
CRI ^[3]	R_a	80	83	90	
Viewing Angle	$2\theta_{1/2}$	-	120	-	Deg.
Storage Temperature	T_{stg}	- 40	-	+ 85	$^\circ\text{C}$
Thermal resistance (J to S) ^[4]	$R\theta_{J-S}$	-	35	-	$^\circ\text{C/W}$
ESD Sensitivity(HBM)	-	Class 2 JESD22-A114-E			

Table 4. Absolute Maximum Ratings

Parameter	Symbol	Value	Unit
Forward Current	I_F	180	mA
Power Dissipation	P_D	0.63	W
Junction Temperature	T_j	120	$^\circ\text{C}$
Operating Temperature	T_{opr}	-40 ~ + 85	$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ + 100	$^\circ\text{C}$

Notes :

- (1) Seoul Semiconductor maintains a tolerance of $\pm 7\%$ on Intensity and power measurements.
- (2) Correlated Color Temperature is derived from the CIE 1931 Chromaticity diagram.
Color coordinate : ± 0.005 , CCT $\pm 5\%$ tolerance.
- (3) Tolerance is ± 2.0 on CRI measurements.
- (4) Thermal resistance is junction to Solder.
- (5) I_{FP} conditions with pulse width $\leq 10\text{ms}$ and duty cycle $\leq 10\%$
- (6) The products are sensitive to static electricity and must be carefully taken when handling products

- Calculated performance values are for reference only.
- All measurements were made under the standardized environment of Seoul Semiconductor.