



## Sıvaüstü montaj Opal cam armatür

### Surface mounted glas fixture

#### Özellikler

- \* Saç gövde üzeri buzlu opal cam kapak
- \* Sensörlü ve acil aydınlatmalı
- \* Sıvaüstü montaj
- \* Yüksek sıcaklığa dayanıklı Nickel Cadmium veya Lityum İyon 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 fazi 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



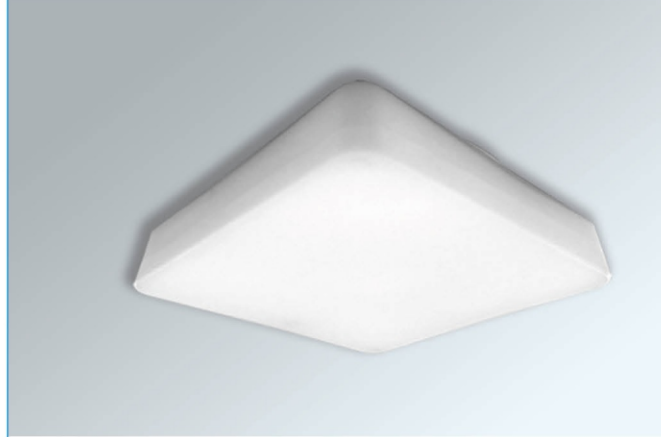
Detaylı bilgi  
More information

#### Teknik Bilgiler

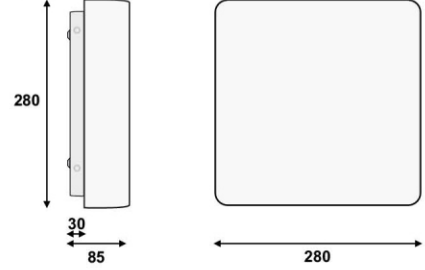
#### Technical Data

|                        |                           |   |
|------------------------|---------------------------|---|
| 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;<br>Non-maintained (NiCd/Li-Ion) 90lm/330lm |
| Gövde sıcaklığı,       | Case temp.                | : 75°C  |
| Koruma Sınıfı,         | Protection grade          | : IP40  |
| Elektrik Sınıfı,       | Electrical classification | : II  |
| Batarya kapasitesi,    | Battery capacity          | : Ni-Cd:1.2V 1,5Ah; Li-Ion 3.7V 2Ah   |

|                 |     |   |
|-----------------|-----|---|
| Renk Sıcaklığı, | CCT | <b>XW</b> :                                 |
|                 |     | <b>CW</b> : Soğuk beyaz, Cool White 6500K   |
|                 |     | <b>NW</b> : Nötr beyaz, Neutral White 4000K |
|                 |     | <b>WW</b> : Sıcak beyaz, Warm White 3000K   |



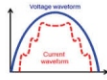
SEZ



| 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 |
|-----------------|--|----------------|------------------|------------------|-----------------|-----------------|--------------|
| SEZ-R3-26-XW-3N | 26W Led+Sensör+Kit                     | 3h             | Ni-Cd 1.2V 1A    | 2500lm / 90lm    | 280x280x85      | 950gr.          | 92\$         |
| SEZ-R3-26-XW-3L | 26W Led+Sensör+Kit                     | 3h             | Li-Ion 3.7V 2A   | 2500lm / 330lm   | 280x280x85      | 950gr.          | 97\$         |
| SEZ-R3-10-XW-3N | 10W Led+Sensör+Kit                     | 3h             | Ni-Cd 1.2V 1A    | 1000lm / 90lm    | 280x280x85      | 900gr.          | 74\$         |
| SEZ-R3-10-XW-3L | 10W Led+Sensör+Kit                     | 3h             | Li-Ion 3.7V 2A   | 1000lm / 330lm   | 280x280x85      | 900gr.          | 81\$         |
| SEZ-R3-26-XW    | 26W Led+Sensör                         |                |                  | 2500lm           | 280x280x85      | 950gr.          | 89\$         |
| SEZ-R3-10-XW    | 10W Led+Sensör                         |                |                  | 950lm            | 280x280x85      | 950gr.          | 72\$         |
| SEZ-10-XW-3N    | 10W Led+Kit                            | 3h             | Ni-Cd 1.2V 1A    | 1000lm / 90lm    | 280x280x85      | 850gr.          | 70\$         |
| SEZ-10-XW-3L    | 10W Led+Kit                            | 3h             | Li-Ion 3.7V 2A   | 1000lm / 330lm   | 280x280x85      | 850gr.          | 75\$         |
| SEZ-13-XW       | 13W Led                                |                |                  | 1250lm           | 280x280x85      | 800gr.          | 47\$         |
| SEZ-6-XW        | 6W Led                                 |                |                  | 500lm            | 280x280x85      | 800gr.          | 42\$         |



# 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 61000-3-2: 2014  
EN 61000-3-3: 2013  
EN 61547: 2009**

**EN 60598-2-22: 2014  
EN 60598-1: 2015  
EN 61347-2-7: 2012  
EN 61347-1: 2014**

**and other Standarts  
TS ISO 7010: 2012/A5: 2015  
TS ISO 3864-1: 2011**



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. KAT  
34090 SULTANBEYLİ / İSTANBUL / TÜRKİYE  
Tel: 0212 282 2822 Fax: 0212 282 2823

(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.*

# AB UYGUNLUK BEYANI EC DECLARATION of CONFORMITY

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

**ŞARJ EDİLEBİLİR LITHIUM İON P>  
RECHARGEABLE LITHIUM İON BATTERY**

**MODEL: ALI 13**

*(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 55022: 2010 /AC2011  
EN 61000-3-2: 2006 + A2:2009  
EN 61000-3-3: 2009  
EN 55024: 2010**



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 - 31/05/2017

*(Place, Date)*

**ALTEZ ELEKTRONİK AYD. LTD. ŞTİ.**



Elektronik Aydınlatma  
SARILIBAŞI YOLU 5/10-11/1  
Mecidiyeköy Mah. Fatih Bulvarı Kat: 15  
34090 Beşiktaş / İstanbul / Türkiye  
Tel: 0212 250 2500 / 2500 2500 / 2500 2500

*(Surname, forename)  
(Company stamp)*

**TİCARİ MARKA / MARKING**

**ALTEZ**

Ürün özellikleri: Nickel Cadmium şarj edilebilir 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<sup>er</sup>

## 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  
SISTEMER Belgelendirme kurallarına uygun ve  
yılı en az bir kez yapılacak güncelleme denetimlerinin  
başarıyla gerçekleştirilmesine bağlıdır. Belgelerin geçerliliği  
www.sistem<sup>er</sup>.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, belgeleendirilen ürünün, Türkiye'de Enstitümüzün belgelendiği şartları karşıladığını da gösterir.  
\*Bu belge hiç bir surette tahrif edilemez, kopya veya okunmazlıklarla zorlaştırılmakla birlikte çoğaltılamaz, kopyası ve silinmesi yasaktır.  
\*TSE İSTANBUL BELGELENDİRME MERKEZİ BAŞKANLIĞI \* Adres: Çayyova Tren İstasyonu Yanı ÇAYIROVA/ERZURUM \* Tel: 2627231273 \* Faks: 2627231606  
\*TSE BELGELENDİRME MERKEZİ BAŞKANLIĞI Adres: Necatibey Cad. No:112 06100 Beşiktaş/İSTANBUL - Tel: 0 312 416 84 81 / 416 84 27, Faks: 0 312 416 80 17  
e-posta : tseb@tse.org.tr , web : www.tse.org.tr





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

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

|   |   |
|---|---|
| <b>TIC-Zeichen:</b><br><i>TIC mark:</i> |  |
|---|---|

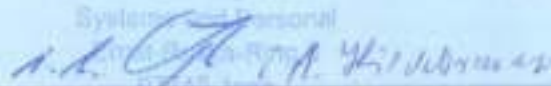
|  |   |
|--|---|
| <b>Dienstleistung/ Managementsystem:</b><br><i>Service / Management system</i>     | Manufacturing and sales of emergency lighting systems and LED systems |
| <b>Auditbericht:</b><br><i>Audit report</i>  | 3330 2EXP A0  |
| <b>Vertrag über die Zertifizierung</b><br><i>Contract concerning 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.

|   |  |
|---|--|
| <b>Dieser Ausweis gilt bis zum:</b><br><i>This certificate is valid until</i> | Entsprechend der Gültigkeit des Zertifikates<br>15 100 96522 |
|---|--|

TÜV Thüringen e.V.  
 Service Center Ostthüringen  
 Zertifizierungsstelle  
 Systeme und Personal



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

# 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.AУ40.В.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](http://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* |
|---------------|-------|

\* 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



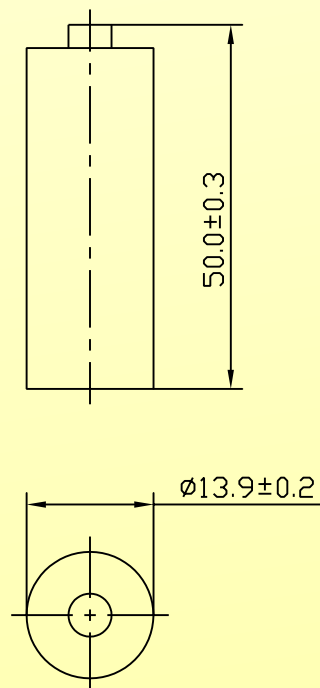
This report refers to the General Conditions for Inspection and Testing Services, printed overleaf.  
This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the 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

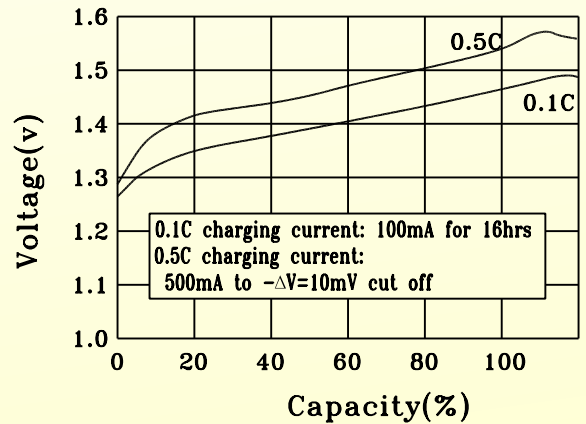
|                            |             |                        |               |
|----------------------------|-------------|------------------------|---------------|
| Nominal Voltage            |             | 1.2V                   |               |
| Dimensions                 | Diameter    | 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)

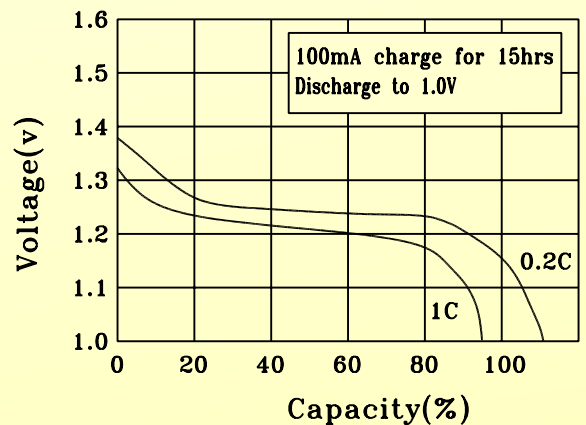


(With tube)

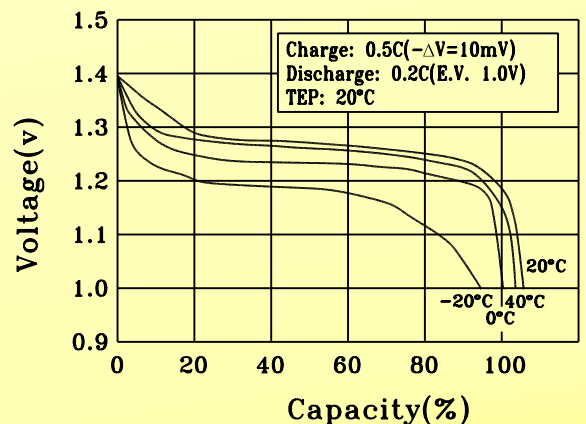
CHARGE CHARACTERISTICS



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**



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

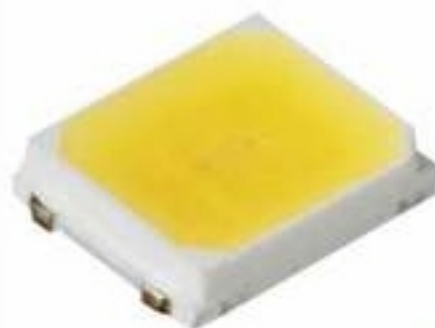
\*TSE Elektroteknik Sektörü Müdürlüğü \* Adres: Necatibey Cad.No:112 06100 Bakanlıklar/ANKARA \* Tel: 0312 416 63 96\* Faks: 0312-416 66 17

\*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) <sup>(1)</sup> | RANK | Luminous Intensity <sup>(2)</sup> |      | Luminous Flux <sup>(3)</sup> |      | CRI   |
|-------------|------------------------|------|-----------------------------------|------|------------------------------|------|-------|
|             |                        |      | $I_V$ (cd)                        |      | $\Phi_V$ (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 <sup>[1]</sup> (2,700K) <sup>[2]</sup> | $I_v$           | -                     | 18.2 | -    | cd                 |
| CRI <sup>[3]</sup>  | $R_a$           | 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) <sup>[4]</sup>                | $R\theta_{J-S}$ | -                     | 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 :  $\pm 0.005$ , CCT  $\pm 5\%$  tolerance.
- (3) Tolerance is  $\pm 2.0$  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.