AGM VRLA AKÜ SERİSİ · AGM VRLA BATTERY SERIES

# SSP12-140

12V 140Ah · AGM VRLA · 345 × 172 × 280 mm

GENEL AMAÇLI VRLA AGM AKÜ / GENERAL PURPOSE VRLA AGM BATTERY







Ürün görseli / Product image

**12V**
GERİLİM
VOLTAGE

**140Ah**
KAPASİTE
CAPACITY

**2800A**
KISA DEVRE
SHORT CIRCUIT

**≈ 4.5 mΩ**
İÇ DİRENÇ
INT. RESISTANCE

**42.1kg**
AĞIRLIK
WEIGHT

**10 yıl · yrs**
TASARIM ÖMRÜ
DESIGN LIFE

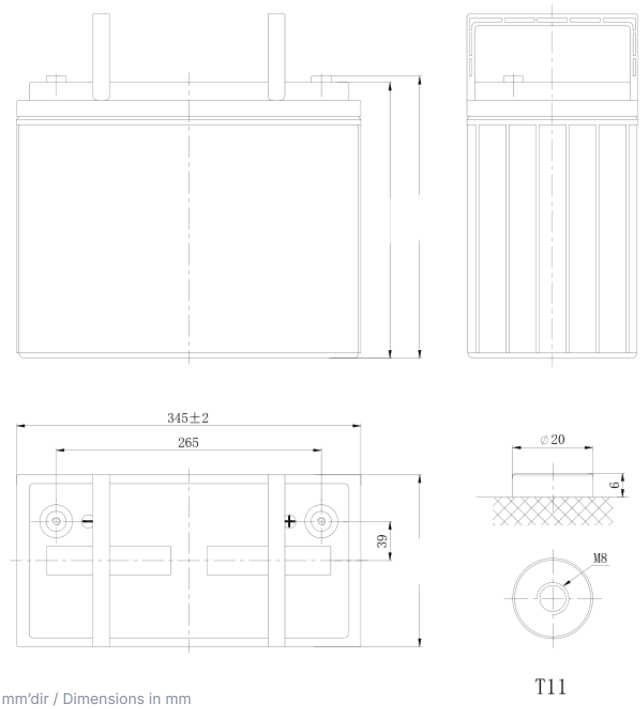
U × G × Y / L × W × H **345 × 172 × 280 mm**

## TEKNİK ÖZELLİKLER
CHARACTERISTICS · ELECTRICAL / MECHANICAL / OPERATING

| | | |
|---|---|---|
| **Nominal gerilim**<br>Rated voltage | | **12V** |
| **Nominal kapasite (25°C)**<br>Nominal capacity (25°C) | C10,1.80V/cell | **140Ah** |
| **Boyutlar**<br>Dimensions | Uzunluk<br>Length | **345mm (13.6inches)** |
| | Genişlik<br>Width | **172mm (6.77inches)** |
| | Kutu yüksekliği<br>Container height | **274mm (10.8inches)** |
| | Toplam yükseklik<br>Total height | **280mm (11.0inches)** |
| **Yaklaşık ağırlık**<br>Approx. weight | | **42.1kg (92.8lbs)** |
| **Terminal** | | **T11(M8)** |
| **Kutu malzemesi**<br>Container material | | **ABS (UL94 HB; V-0 opsiyonel)**<br>ABS (UL94 HB or V-0 optional) |
| **Kısa devre akımı**<br>Short-circuit current | | **2800A** |
| **İç direnç (25°C)**<br>Internal resistance (25°C) | | **Yaklaşık 4.5 mΩ (tam şarjlı)**<br>Approx. 4.5 mΩ (fully charged) |
| **Çalışma sıcaklığı aralığı**<br>Operating temp. range | Deşarj<br>Discharge | **-15~50°C (5~122°F)** |
| | Şarj<br>Charge | **-20~40°C (-4~104°F)** |
| | Depolama<br>Storage | **-15~40°C (5~104°F)** |

| | | |
|---|---|---|
| **Nominal çalışma sıcaklığı**<br>Nominal operating temp. range | | **25±3°C (77±5°F)** |
| **Maks. şarj akımı (25°C)**<br>Max. charging current (25°C) | | **0.3C** |
| **Şarj gerilimi (25°C)**<br>Charge voltage (25°C) | Bekleme kullanımı<br>Standby use | **Çevrimli kullanım**<br>Cycle use |
| | 2.25-2.30V/cell | **2.35-2.40V/cell** |
| **Sıcaklık katsayısı**<br>Temp. coefficient | -3mV/cell/°C | **-5mV/cell/°C** |
| **Sıcaklığın kapasiteye etkisi**<br>Effect of temperature on capacity | 40°C (104°F) | **103%** |
| | 25°C (77°F) | **100%** |
| | 0°C (32°F) | **86%** |
| **Kendiliğinden deşarj**<br>Self discharge | 25°C (77°F)'de ayda ≤ %3. Aküler 25°C (77°F)'de 6 aya kadar depolanabilir, ardından tazeleme şarjı gerekir. Daha yüksek sıcaklıklarda bu süre kısalır.<br>≤3% per month at 25°C (77°F). Batteries may be stored up to 6 months at 25°C (77°F), then a freshening charge is required. At higher temperatures the interval is shorter. | |

## 01 TEKNİK ÇİZİM / TECHNICAL DRAWING (mm)




Ölçüler mm'dir / Dimensions in mm

| Uzunluk Length | Genişlik Width | Kutu yüksekliği Container height | Toplam yükseklik Total height |
|---|---|---|---|
| 345mm | 172mm | 274mm | 280mm |

**TERMİNAL** / TERMINAL
**T11(M8)**

## 02 DEŞARJ TABLOLARI / DISCHARGE TABLES (25°C)

**Sabit akım deşarjı (A, 25°C)** / Constant current discharge (A, 25°C)

| Son ger. / F.V. | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 1.5 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85 V | 279.8 | 198.9 | 172.5 | 135.6 | 123.7 | 90.5 | 76.6 | 55.5 | 46.7 | 34.3 | 26.9 | 23.3 | 20.6 | 15.8 | 13.1 | 6.95 |
| 1.80 V | 318.2 | 225.8 | 195.4 | 153.3 | 134.7 | 95.9 | 79.4 | 57.4 | 48.2 | 37.2 | 28.7 | 24.5 | 22.1 | 16.6 | 14.0 | 7.20 |
| 1.75 V | 345.6 | 244.9 | 211.6 | 165.5 | 137.5 | 99.3 | 83.3 | 60.4 | 50.8 | 37.9 | 29.2 | 25.0 | 22.3 | 16.7 | 14.1 | 7.28 |
| 1.70 V | 369.4 | 261.1 | 224.7 | 175.5 | 140.2 | 101.3 | 85.0 | 61.6 | 51.8 | 38.6 | 29.7 | 25.4 | 22.4 | 17.0 | 14.2 | 7.35 |
| 1.67 V | 382.3 | 269.3 | 231.3 | 180.3 | 142.3 | 102.8 | 86.2 | 62.5 | 52.5 | 39.0 | 30.2 | 25.9 | 22.5 | 17.2 | 14.3 | 7.44 |
| 1.60 V | 395.9 | 278.6 | 238.4 | 184.9 | 144.3 | 104.3 | 87.5 | 63.4 | 53.3 | 39.4 | 30.6 | 26.3 | 22.6 | 17.4 | 14.4 | 7.53 |

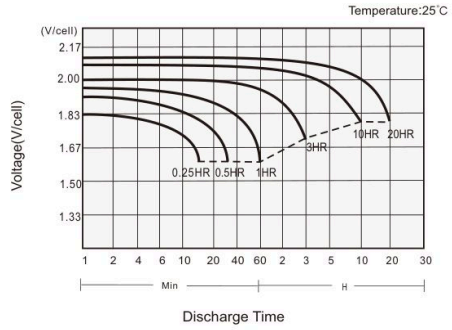
**Sabit güç deşarjı (W/hücre, 25°C)** / Constant power discharge (W/cell, 25°C)

| Son ger. / F.V. | 5 min | 10 min | 15 min | 20 min | 30 min | 45 min | 1 h | 1.5 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85 V | 511.8 | 366.6 | 319.9 | 252.7 | 236.5 | 174.0 | 148.3 | 107.7 | 90.8 | 67.0 | 52.7 | 45.9 | 40.6 | 31.4 | 26.1 | 13.8 |
| 1.80 V | 572.5 | 410.1 | 357.8 | 282.7 | 255.4 | 183.1 | 152.7 | 110.8 | 93.4 | 72.3 | 56.1 | 48.1 | 43.5 | 32.9 | 27.2 | 14.3 |
| 1.75 V | 611.0 | 437.7 | 381.9 | 301.7 | 258.6 | 188.6 | 159.5 | 116.0 | 97.9 | 73.5 | 56.9 | 48.8 | 43.7 | 33.0 | 27.5 | 14.4 |
| 1.70 V | 642.4 | 460.1 | 401.5 | 317.2 | 261.6 | 191.1 | 161.9 | 117.8 | 99.4 | 74.7 | 57.7 | 49.5 | 43.8 | 33.5 | 27.7 | 14.6 |
| 1.67 V | 652.8 | 467.6 | 408.0 | 322.3 | 263.5 | 192.8 | 163.3 | 118.9 | 100.5 | 75.1 | 58.4 | 50.3 | 43.9 | 33.9 | 28.0 | 14.7 |
| 1.60 V | 662.0 | 474.1 | 413.7 | 326.8 | 264.6 | 193.7 | 164.5 | 119.9 | 101.3 | 75.4 | 58.8 | 50.8 | 44.1 | 34.2 | 28.3 | 14.9 |

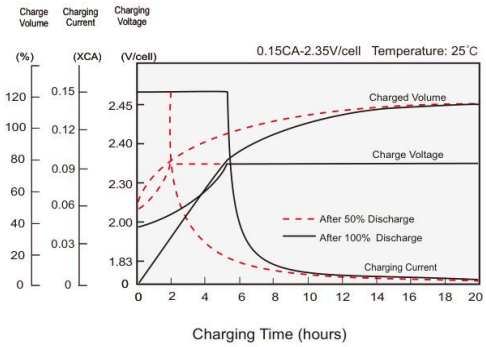
F.V. = son gerilim (V/hücre) / final voltage (V/cell) · min = dakika, h = saat / minutes, hours

## 03 PERFORMANS EĞRİLERİ / PERFORMANCE CURVES

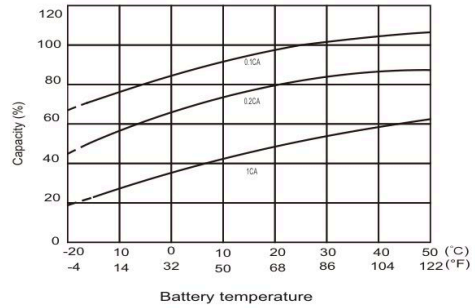
### DEŞARJ KARAKTERİSTİKLERİ
DISCHARGE CHARACTERISTICS



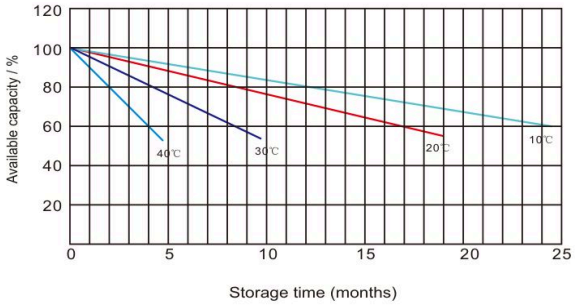

### ŞARJ KARAKTERİSTİKLERİ
CHARGING CHARACTERISTICS




### SICAKLIĞIN KAPASİTEYE ETKİSİ
EFFECT OF TEMPERATURE ON CAPACITY




### KENDİ KENDİNE DEŞARJ KARAKTERİSTİKLERİ
SELF-DISCHARGE CHARACTERISTICS




## 04 UYGULAMALAR · ÖZELLİKLER · STANDARTLAR / APPLICATIONS · FEATURES · STANDARDS

### UYGULAMALAR / APPLICATIONS

- **Çok amaçlı kullanım**
  All purpose
- **Kesintisiz güç kaynağı (UPS)**
  Uninterruptable Power Supply (UPS)
- **Elektrik güç sistemleri (EPS)**
  Electric Power System (EPS)
- **Acil durum yedek güç kaynağı**
  Emergency backup power supply
- **Alarm ve güvenlik sistemleri**
  Alarm and security system
- **Haberleşme güç kaynağı**
  Communication power supply
- **DC güç kaynağı**
  DC power supply
- **Otomatik kontrol sistemleri**
  Auto control system

### GENEL ÖZELLİKLER / GENERAL FEATURES

- **10 yıl tasarım ömrü (25°C)**
  10 years design life (25°C)
- **Kurşun-kalsiyum alaşım, kapalı tasarım, su ilavesi gerektirmez**
  Lead calcium alloy, sealed design, no watering required
- **Delinmeye dayanıklı mikro gözenekli cam elyaf separatörler ömrü uzatır**
  Puncture-resistant micro-porous glass mat separators extend life
- **Özel teknoloji; güç kapasitesini, hücre tutarlılığını ve uzun vadeli güvenilirliği optimize eder**
  Unique technology optimizes power capacity, cell consistency, and long-term reliability
- **Geniş bir uygulama yelpazesi için tasarlanmıştır**
  Designed for a wide range of applications

### STANDARTLAR / STANDARDS

- **IEC 60896 standartlarına ve AB Pil/Akü Direktifine uygun**
  Compliance with IEC 60896 standards, EU Battery Directive
- **UL, CE onaylı**
  UL, CE approved

## 05 AGM VRLA TEKNOLOJİSİ / AGM VRLA TECHNOLOGY

AGM (Absorbent Glass Mat) aküde elektrolit, plakalar arasına sıkıştırılmış cam elyaf separatörlere tamamen emdirilmiştir; serbest sıvı asit bulunmaz. Valf regülasyonlu (VRLA) kapalı yapı sızdırmaz ve bakım gerektirmez.

In an AGM (Absorbent Glass Mat) battery the electrolyte is fully absorbed in glass-fibre separators compressed between the plates, so there is no free liquid acid. The sealed valve-regulated (VRLA) design is spill-proof and maintenance-free.

Yukarıdaki veriler tavsiye niteliğindedir; ürün görseli temsilidir. Teknik özellikler önceden haber verilmeksizin değiştirilebilir. Data above are recommended values; the product image is representative. Specifications are subject to change without prior notice. © STAY STRONG – SELÇUK ALEMDAR ENERJİ İTH. İHR. SAN. VE TİC. A.Ş.