AGM VRLA AKÜ SERİSİ · AGM VRLA BATTERY SERIES

# SSP12-225

12V 225Ah · AGM VRLA · 522 × 240 × 226 mm

GENEL AMAÇLI VRLA AGM AKÜ / GENERAL PURPOSE VRLA AGM BATTERY







Ürün görseli / Product image

**12V**
GERİLİM
VOLTAGE

**225Ah**
KAPASİTE
CAPACITY

**4050A**
KISA DEVRE
SHORT CIRCUIT

**≈ 2.8 mΩ**
İÇ DİRENÇ
INT. RESISTANCE

**63.5kg**
AĞIRLIK
WEIGHT

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

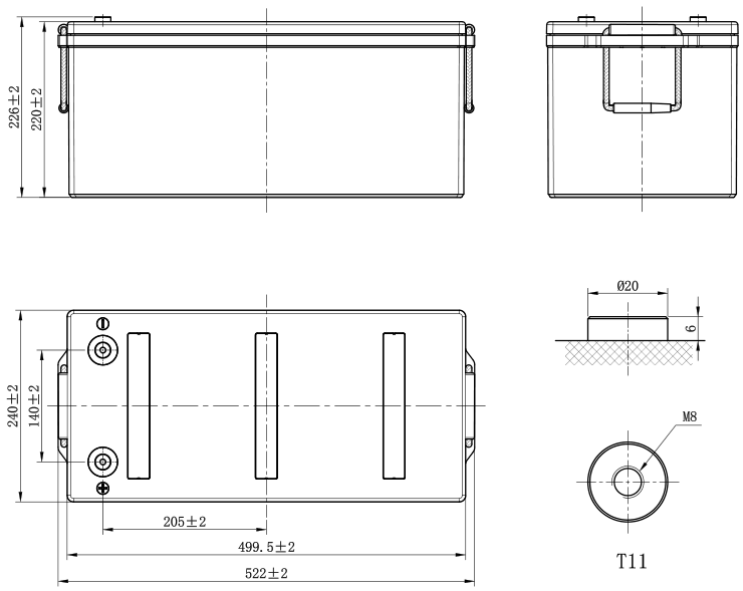
U × G × Y / L × W × H **522 × 240 × 226 mm**

## 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 | **225Ah** |
| **Boyutlar**<br>Dimensions | Uzunluk<br>Length | **522mm (20.6inches)** |
| | Genişlik<br>Width | **240mm (9.45inches)** |
| | Kutu yüksekliği<br>Container height | **220mm (8.66inches)** |
| | Toplam yükseklik<br>Total height | **226mm (8.90inches)** |
| **Yaklaşık ağırlık**<br>Approx. weight | | **63.5kg (140.0lbs)** |
| **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 | | **4050A** |
| **İç direnç (25°C)**<br>Internal resistance (25°C) | | **Yaklaşık 2.8 mΩ (tam şarjlı)**<br>Approx. 2.8 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<br>Length | Genişlik<br>Width | Kutu yüksekliği<br>Container height | Toplam yükseklik<br>Total height |
|---|---|---|---|
| 522mm | 240mm | 220mm | 226mm |

**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 | 468.3 | 349.6 | 291.2 | 244.7 | 188.1 | 140.3 | 118.6 | 88.9 | 71.2 | 53.7 | 42.8 | 35.7 | 31.0 | 25.2 | 21.1 | 11.3 |
| 1.80 V | 545.9 | 412.2 | 338.6 | 281.9 | 212.6 | 156.9 | 131.2 | 97.3 | 77.4 | 58.1 | 46.1 | 38.5 | 33.3 | 27.0 | 22.5 | 11.9 |
| 1.75 V | 595.7 | 442.0 | 358.2 | 295.8 | 222.2 | 163.3 | 136.1 | 100.6 | 79.8 | 59.6 | 47.3 | 39.4 | 34.0 | 27.5 | 22.8 | 12.1 |
| 1.70 V | 645.2 | 471.4 | 378.5 | 311.3 | 232.0 | 169.5 | 141.1 | 104.0 | 82.4 | 61.4 | 48.4 | 40.3 | 34.7 | 28.0 | 23.2 | 12.2 |
| 1.67 V | 673.6 | 488.7 | 390.5 | 320.1 | 237.9 | 173.3 | 144.0 | 105.8 | 83.7 | 62.3 | 49.1 | 40.8 | 35.1 | 28.3 | 23.4 | 12.3 |
| 1.60 V | 742.5 | 528.8 | 418.5 | 340.9 | 251.3 | 182.3 | 151.0 | 110.5 | 87.2 | 64.6 | 50.7 | 42.0 | 36.1 | 28.9 | 23.9 | 12.5 |

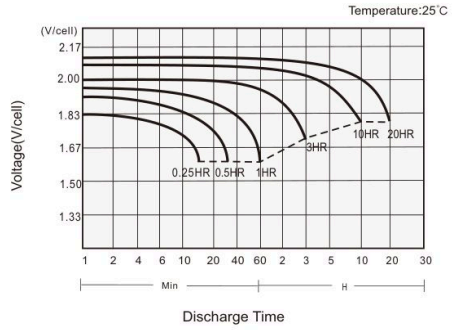
**Sabit güç deşarjı (W/hücre, 25°C)** / Constant power discharge (W/cell, 25°C)

| 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 | 889.8 | 669.2 | 559.4 | 471.4 | 363.5 | 272.1 | 230.4 | 173.4 | 139.1 | 105.2 | 84.0 | 70.4 | 61.2 | 49.8 | 41.7 | 22.5 |
| 1.80 V | 1021.5 | 779.6 | 643.7 | 538.0 | 407.5 | 302.0 | 253.3 | 188.6 | 150.6 | 113.4 | 90.3 | 75.6 | 65.5 | 53.2 | 44.5 | 23.7 |
| 1.75 V | 1097.7 | 825.8 | 673.8 | 559.1 | 422.3 | 311.9 | 260.8 | 193.8 | 154.3 | 115.9 | 92.2 | 77.0 | 66.6 | 54.1 | 45.1 | 24.0 |
| 1.70 V | 1169.5 | 869.1 | 704.1 | 582.5 | 436.9 | 321.2 | 268.5 | 199.1 | 158.4 | 118.8 | 94.2 | 78.6 | 67.9 | 54.9 | 45.7 | 24.3 |
| 1.67 V | 1209.4 | 894.0 | 728.2 | 595.2 | 445.5 | 326.8 | 272.8 | 201.9 | 160.5 | 120.2 | 95.2 | 79.4 | 68.6 | 55.4 | 46.1 | 24.4 |
| 1.60 V | 1299.4 | 947.6 | 759.7 | 623.8 | 464.7 | 340.0 | 283.4 | 209.2 | 166.0 | 123.9 | 97.9 | 81.4 | 70.2 | 56.6 | 46.9 | 24.8 |

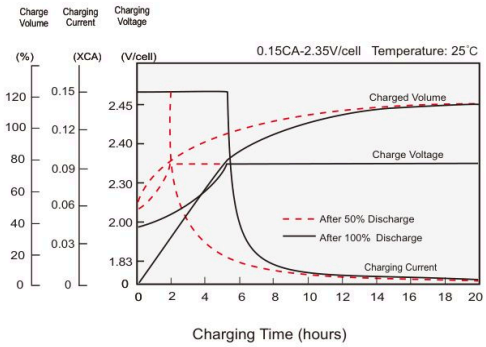
F.V. = son gerilim (V/hücre) / final voltage (V/cell) · min = dakika, h = saat / minutes, hours

## 03 PERFORMANS EĞRİLERİ / PERFORMANCE CURVES

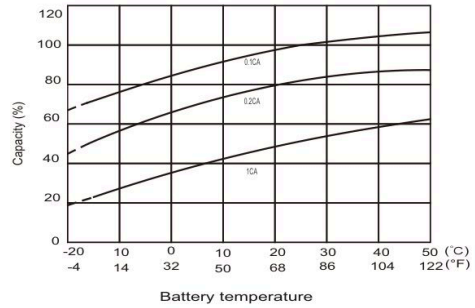
### DEŞARJ KARAKTERİSTİKLERİ
DISCHARGE CHARACTERISTICS



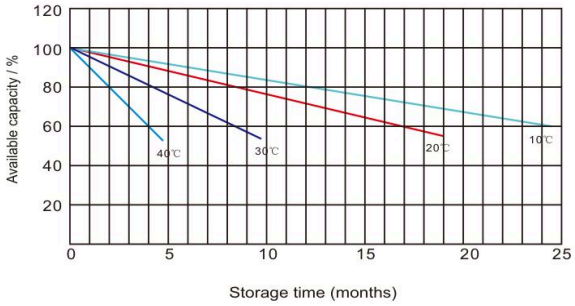

### ŞARJ KARAKTERİSTİKLERİ
CHARGING CHARACTERISTICS




### 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.