AGM VRLA AKÜ SERİSİ · AGM VRLA BATTERY SERIES

# SSPL2-400M

2V 400Ah · AGM VRLA · 158 × 181 × 365 mm

UZUN ÖMÜRLÜ YEDEK GÜÇ AKÜSÜ / LONG LIFE STANDBY BATTERY







Ürün görseli / Product image

**2V**
GERİLİM
VOLTAGE

**400Ah**
KAPASİTE
CAPACITY

**5200A**
KISA DEVRE
SHORT CIRCUIT

**≈ 0.6 mΩ**
İÇ DİRENÇ
INT. RESISTANCE

**22.7kg**
AĞIRLIK
WEIGHT

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

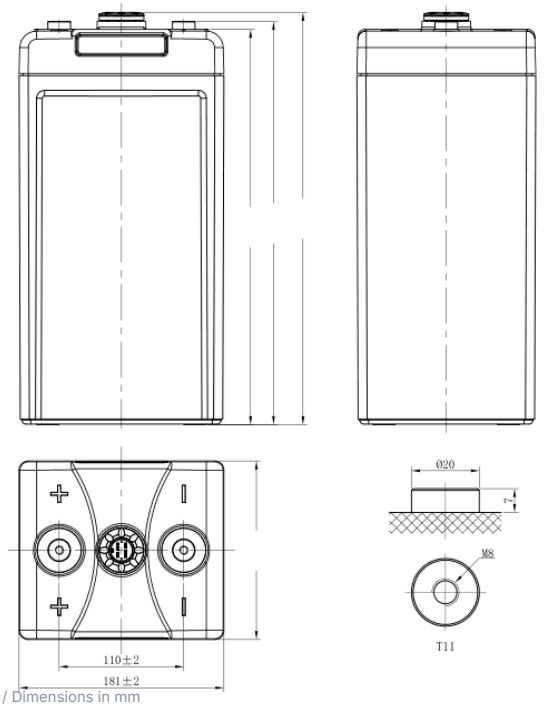
U × G × Y / L × W × H — **158 × 181 × 365 mm**

## TEKNİK ÖZELLİKLER
CHARACTERISTICS · ELECTRICAL / MECHANICAL / OPERATING

| | | |
|---|---|---|
| **Nominal gerilim**<br>Rated voltage | | **2V** |
| **Nominal kapasite (25°C)**<br>Nominal capacity (25°C) | C10,1.80V/cell | **400Ah** |
| **Boyutlar**<br>Dimensions | Uzunluk<br>Length | **158mm (6.22inches)** |
| | Genişlik<br>Width | **181mm (7.13inches)** |
| | Kutu yüksekliği<br>Container height | **350mm (13.8inches)** |
| | Toplam yükseklik<br>Total height | **365mm (14.4inches)** |
| **Yaklaşık ağırlık**<br>Approx. weight | | **22.7kg (50.0lbs)** |
| **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 | | **5200A** |
| **İç direnç (25°C)**<br>Internal resistance (25°C) | | **Yaklaşık 0.6 mΩ (tam şarjlı)**<br>Approx. 0.6 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) | Tampon (float) şarj<br>Float charge | **Dengeleme şarjı**<br>Equalization charge |
| | 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 |
|---|---|---|---|
| 158mm | 181mm | 350mm | 365mm |

**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. | 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 | 252.6 | 206.3 | 183.1 | 169.0 | 112.4 | 93.6 | 75.3 | 63.5 | 55.2 | 44.8 | 37.5 | 20.1 |
| 1.80 V | 278.2 | 226.0 | 199.9 | 173.8 | 122.9 | 101.3 | 81.2 | 68.4 | 59.2 | 48.0 | 40.0 | 21.2 |
| 1.75 V | 322.7 | 255.2 | 221.5 | 182.5 | 135.4 | 104.0 | 83.2 | 70.0 | 60.4 | 48.9 | 40.6 | 21.5 |
| 1.70 V | 348.2 | 281.5 | 248.1 | 187.5 | 139.8 | 107.0 | 85.3 | 71.6 | 61.7 | 49.7 | 41.3 | 21.7 |
| 1.67 V | 358.3 | 286.3 | 250.3 | 189.3 | 142.9 | 108.7 | 86.5 | 72.5 | 62.4 | 50.3 | 41.6 | 21.9 |
| 1.60 V | 378.0 | 294.5 | 252.7 | 192.0 | 146.3 | 112.7 | 89.4 | 74.7 | 64.2 | 51.4 | 42.5 | 22.3 |

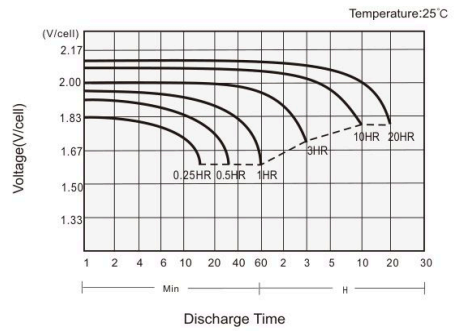
**Sabit güç deşarjı (W/hücre, 25°C)** / Constant power discharge (W/cell, 25°C)

| Son ger. / F.V. | 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 | 480.7 | 419.5 | 388.9 | 307.5 | 230.9 | 183.6 | 148.0 | 125.1 | 108.8 | 88.6 | 74.2 | 40.0 |
| 1.80 V | 517.6 | 444.7 | 408.3 | 314.1 | 243.2 | 197.8 | 159.0 | 134.3 | 116.4 | 94.6 | 79.0 | 42.1 |
| 1.75 V | 593.3 | 483.6 | 428.7 | 326.4 | 252.6 | 202.2 | 162.3 | 137.0 | 118.5 | 96.2 | 80.1 | 42.6 |
| 1.70 V | 630.2 | 500.3 | 435.4 | 336.4 | 254.2 | 207.8 | 165.8 | 139.7 | 120.7 | 97.7 | 81.3 | 43.1 |
| 1.67 V | 641.8 | 507.2 | 439.9 | 337.2 | 258.6 | 209.7 | 167.7 | 141.1 | 121.9 | 98.6 | 81.9 | 43.4 |
| 1.60 V | 698.8 | 546.1 | 469.8 | 346.7 | 278.4 | 216.1 | 172.4 | 144.8 | 124.8 | 100.6 | 83.4 | 44.2 |

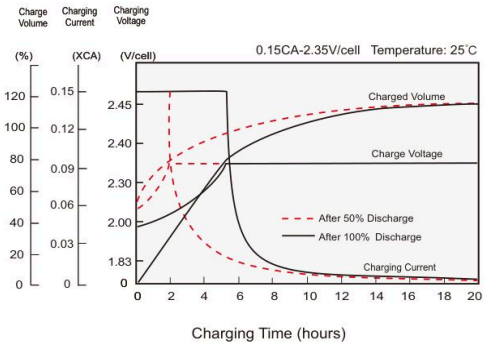
F.V. = son gerilim (V/hücre) / final voltage (V/cell) · min = dakika, h = saat / minutes, hours

## 03 PERFORMANS EĞRİLERİ / PERFORMANCE CURVES

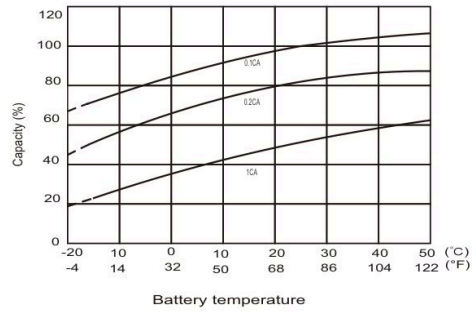
### DEŞARJ KARAKTERİSTİKLERİ
DISCHARGE CHARACTERISTICS



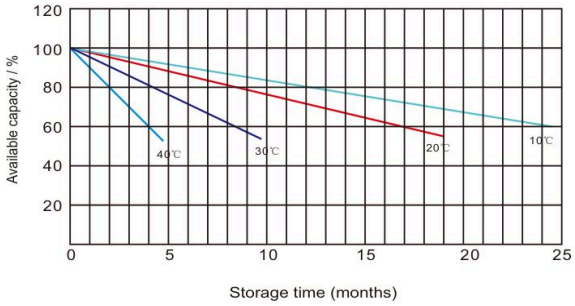

### ŞARJ KARAKTERİSTİKLERİ
CHARGING CHARACTERISTICS




### SICAKLIĞIN KAPASİTEYE ETKİSİ
EFFECT OF TEMPERATURE ON CAPACITY




### KENDİ KENDİNE DEŞARJ KARAKTERİSTİKLERİ
SELF-DISCHARGE CHARACTERISTICS




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

### UYGULAMALAR / APPLICATIONS

- **Telekomünikasyon merkez istasyonu (kablolu veya hücresel)**
  Telecommunication central station (wired or cellular)
- **Enerji sistemi haberleşmesi, askeri haberleşme vb.**
  Power system communication, military communication, etc.
- **Ağ haberleşmesi: veri iletimi, televizyon sinyali iletimi vb.**
  Network communication: data transmission, television signal transmission, etc.
- **Kesintisiz güç kaynağı (telekom UPS)**
  Uninterruptible power system (UPS for telecom)
- **EPS (acil durum güç sistemi)**
  EPS

### GENEL ÖZELLİKLER / GENERAL FEATURES

- **16 yıl tasarım ömrü (25°C)**
  16 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.