JEL VRLA AKÜ SERİSİ · GEL VRLA BATTERY SERIES

# SSPGS2-500

2V 500Ah · GEL VRLA · 240 × 175 × 339 mm

HİBRİT JEL AKÜ / HYBRID GEL BATTERY







Ürün görseli / Product image

**2V**
GERİLİM
VOLTAGE

**500Ah**
KAPASİTE
CAPACITY

**6000A**
KISA DEVRE
SHORT CIRCUIT

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

**30kg**
AĞIRLIK
WEIGHT

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

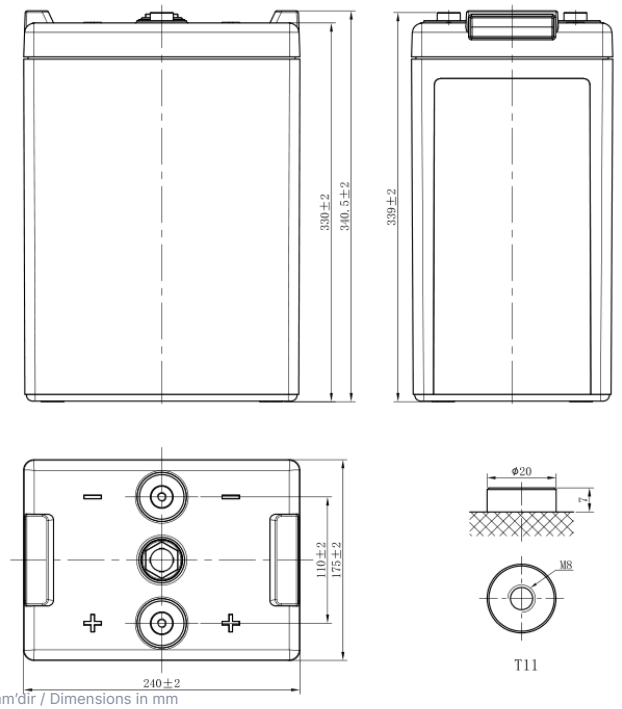
U × G × Y / L × W × H **240 × 175 × 339 mm**

## 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 | **500Ah** |
| **Boyutlar**<br>Dimensions | Uzunluk<br>Length | **240mm (9.45inches)** |
| | Genişlik<br>Width | **175mm (6.89inches)** |
| | Kutu yüksekliği<br>Container height | **330mm (13.0inches)** |
| | Toplam yükseklik<br>Total height | **339mm (13.3inches)** |
| **Yaklaşık ağırlık**<br>Approx. weight | | **30kg (66.1lbs)** |
| **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 | | **6000A** |
| **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 | **-20~55°C (-4~131°F)** |
| | Şarj<br>Charge | **-20~40°C (-4~104°F)** |
| | Depolama<br>Storage | **-20~50°C (-4~122°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) | | **0.25C** |
| **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 can be stored up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be 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 |
|---|---|---|---|
| 240mm | 175mm | 330mm | 339mm |

**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. | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85 V | 375.3 | 339.3 | 315.0 | 275.1 | 240.8 | 153.8 | 117.0 | 94.1 | 79.4 | 69.0 | 56.0 | 46.9 | 25.1 |
| 1.80 V | 465.8 | 412.7 | 361.7 | 307.7 | 266.5 | 167.4 | 126.6 | 101.5 | 85.6 | 74.0 | 60.0 | 50.0 | 26.5 |
| 1.75 V | 513.8 | 435.1 | 378.5 | 320.2 | 276.4 | 172.5 | 130.0 | 104.0 | 87.5 | 75.5 | 61.1 | 50.8 | 26.8 |
| 1.70 V | 571.8 | 487.0 | 402.9 | 332.3 | 286.5 | 178.0 | 133.8 | 106.6 | 89.5 | 77.1 | 62.2 | 51.6 | 27.2 |
| 1.67 V | 591.9 | 503.9 | 414.1 | 339.8 | 292.5 | 181.0 | 135.8 | 108.1 | 90.6 | 78.1 | 62.8 | 52.0 | 27.4 |
| 1.60 V | 621.7 | 525.1 | 421.8 | 357.3 | 306.7 | 188.5 | 140.8 | 111.7 | 93.4 | 80.2 | 64.3 | 53.1 | 27.9 |

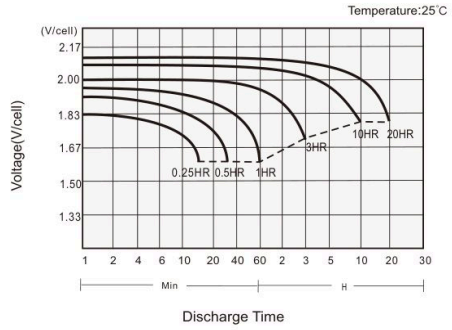
**Sabit güç deşarjı (W/hücre, 25°C)** / Constant power discharge (W/cell, 25°C)

| Son ger. / F.V. | 15 min | 20 min | 30 min | 45 min | 1 h | 2 h | 3 h | 4 h | 5 h | 6 h | 8 h | 10 h | 20 h |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.85 V | 691.0 | 627.5 | 578.4 | 533.5 | 468.1 | 300.6 | 229.5 | 185.0 | 156.4 | 136.0 | 110.7 | 92.7 | 49.9 |
| 1.80 V | 848.7 | 755.9 | 658.6 | 592.2 | 514.5 | 325.5 | 247.3 | 198.7 | 167.9 | 145.5 | 118.3 | 98.8 | 52.6 |
| 1.75 V | 926.1 | 789.0 | 683.2 | 611.5 | 529.8 | 333.6 | 252.8 | 202.9 | 171.2 | 148.1 | 120.2 | 100.2 | 53.3 |
| 1.70 V | 1018.9 | 874.5 | 720.5 | 629.8 | 545.5 | 342.5 | 258.9 | 207.3 | 174.6 | 150.9 | 122.1 | 101.6 | 53.9 |
| 1.67 V | 1047.6 | 898.9 | 733.2 | 640.7 | 554.2 | 347.0 | 262.1 | 209.6 | 176.4 | 152.4 | 123.2 | 102.4 | 54.3 |
| 1.60 V | 1080.8 | 921.9 | 740.4 | 666.6 | 575.7 | 358.8 | 270.2 | 215.5 | 181.0 | 156.1 | 125.7 | 104.3 | 55.2 |

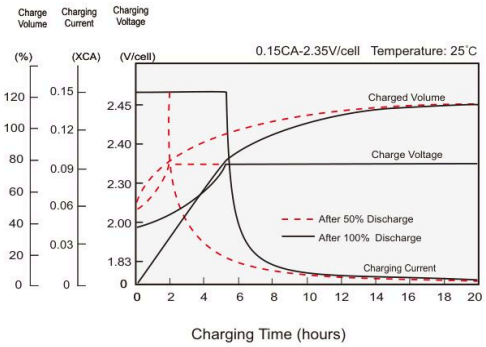
F.V. = son gerilim (V/hücre) / final voltage (V/cell) · min = dakika, h = saat / minutes, hours

## 03 PERFORMANS EĞRİLERİ / PERFORMANCE CURVES

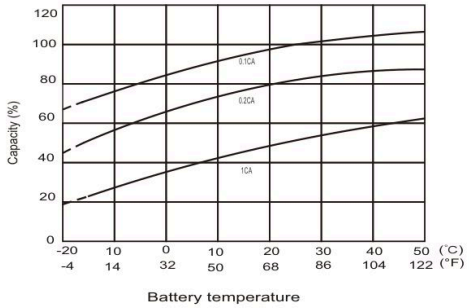
### DEŞARJ KARAKTERİSTİKLERİ
DISCHARGE CHARACTERISTICS



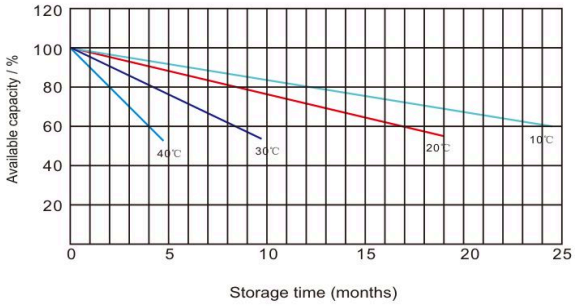

### ŞARJ KARAKTERİSTİKLERİ
CHARGING CHARACTERISTICS




### 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**
  Telecommunications
- **Kesintisiz güç kaynağı (UPS)**
  Uninterruptible power system
- **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.

### GENEL ÖZELLİKLER / GENERAL FEATURES

- **16 yıl tasarım ömrü (25°C)**
  16 years design life (25°C)
- **Kanıtlanmış AGM-JEL teknolojisi**
  Proven AGM-GEL technology
- **Derin deşarjdan mükemmel toparlanma ve çevrim kabiliyeti**
  Excellent deep discharge recovery and cyclability
- **Çok az bakım: su ilavesi gerekmez**
  Very low maintenance: no water addition
- **Düşük kendiliğinden deşarj oranı**
  Low self-discharge rate

### STANDARTLAR / STANDARDS

- **IEC 60896 sertifikalı**
  IEC60896 Certified
- **Eurobat'a göre "Çok Uzun Ömürlü" sınıfındadır**
  Classified as "Very Long Life" according to Eurobat
- **UL, CE onaylı**
  UL, CE approved

## 05 JEL VRLA TEKNOLOJİSİ / GEL VRLA TECHNOLOGY

Jel teknolojisinde elektrolit, silika ile jel hâline getirilerek plakalar arasında sabitlenir. Valf regülasyonlu (VRLA) kapalı yapı sızdırmaz ve bakım gerektirmez; derin deşarj ve çevrimli kullanımda yüksek dayanım sağlar.

In gel technology the electrolyte is immobilised as a silica gel between the plates. The sealed valve-regulated (VRLA) design is spill-proof and maintenance-free and gives high resistance to deep discharge and cycling.

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.