JEL VRLA AKÜ SERİSİ · GEL VRLA BATTERY SERIES

# SSPGS2-300

2V 300Ah · GEL VRLA · 170 × 150 × 337 mm

HİBRİT JEL AKÜ / HYBRID GEL BATTERY







Ürün görseli / Product image

**2V**
GERİLİM
VOLTAGE

**300Ah**
KAPASİTE
CAPACITY

**3900A**
KISA DEVRE
SHORT CIRCUIT

**≈ 0.8 mΩ**
İÇ DİRENÇ
INT. RESISTANCE

**18.5kg**
AĞIRLIK
WEIGHT

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

U × G × Y / L × W × H **170 × 150 × 337 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 | **300Ah** |
| **Boyutlar**<br>Dimensions | Uzunluk<br>Length | **170mm (6.69inches)** |
| | Genişlik<br>Width | **150mm (5.91inches)** |
| | Kutu yüksekliği<br>Container height | **328mm (12.9inches)** |
| | Toplam yükseklik<br>Total height | **337mm (13.3inches)** |
| **Yaklaşık ağırlık**<br>Approx. weight | | **18.5kg (40.8lbs)** |
| **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 | | **3900A** |
| **İç direnç (25°C)**<br>Internal resistance (25°C) | | **Yaklaşık 0.8 mΩ (tam şarjlı)**<br>Approx. 0.8 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. | |

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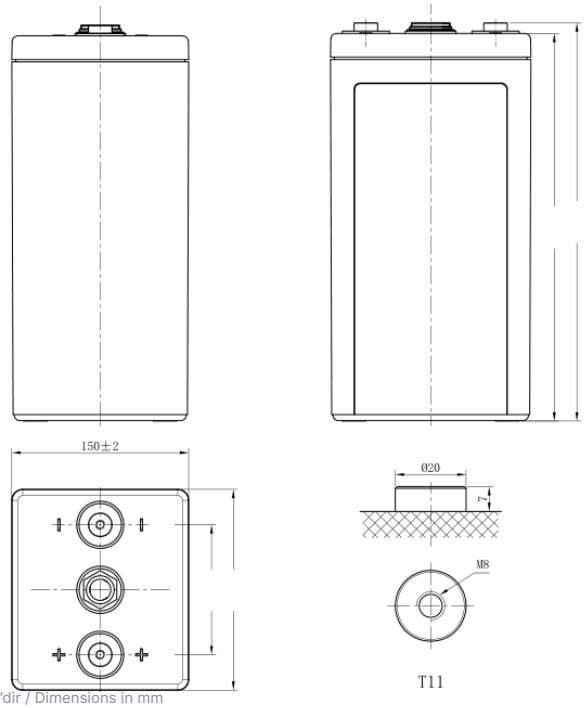
## 01 TEKNİK ÇİZİM / TECHNICAL DRAWING (mm)




Ölçüler mm'dir / Dimensions in mm

| Uzunluk Length | Genişlik Width | Kutu yüksekliği Container height | Toplam yükseklik Total height |
|---|---|---|---|
| 170mm | 150mm | 328mm | 337mm |

**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 | 225.2 | 203.5 | 189.0 | 165.1 | 144.5 | 92.3 | 70.2 | 56.5 | 47.7 | 41.4 | 33.6 | 28.1 | 15.1 |
| 1.80 V | 279.4 | 247.6 | 217.0 | 184.6 | 159.9 | 100.4 | 76.0 | 60.9 | 51.3 | 44.4 | 36.0 | 30.0 | 15.9 |
| 1.75 V | 308.2 | 261.0 | 227.1 | 192.1 | 165.8 | 103.5 | 78.0 | 62.4 | 52.5 | 45.3 | 36.7 | 30.5 | 16.1 |
| 1.70 V | 343.0 | 292.2 | 241.7 | 199.4 | 171.9 | 106.8 | 80.3 | 64.0 | 53.7 | 46.3 | 37.3 | 30.9 | 16.3 |
| 1.67 V | 355.1 | 302.3 | 248.4 | 203.9 | 175.5 | 108.6 | 81.5 | 64.9 | 54.4 | 46.8 | 37.7 | 31.2 | 16.4 |
| 1.60 V | 372.9 | 315.0 | 253.1 | 214.4 | 184.0 | 113.1 | 84.5 | 67.0 | 56.0 | 48.1 | 38.6 | 31.9 | 16.7 |

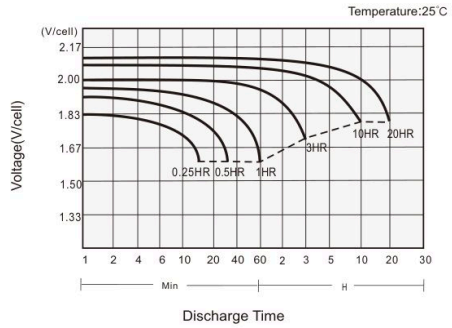
**Sabit güç deşarjı (W/hücre, 25°C)** / Constant power discharge (W/cell, 25°C)

| 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 | 414.5 | 376.4 | 347.0 | 320.1 | 280.9 | 180.4 | 137.7 | 111.0 | 93.8 | 81.6 | 66.4 | 55.6 | 30.0 |
| 1.80 V | 509.1 | 453.5 | 395.2 | 355.3 | 308.7 | 195.3 | 148.4 | 119.2 | 100.8 | 87.3 | 71.0 | 59.3 | 31.6 |
| 1.75 V | 555.7 | 473.4 | 409.9 | 366.9 | 317.9 | 200.2 | 151.7 | 121.7 | 102.7 | 88.9 | 72.1 | 60.1 | 32.0 |
| 1.70 V | 611.3 | 524.6 | 432.3 | 377.9 | 327.3 | 205.5 | 155.4 | 124.4 | 104.8 | 90.5 | 73.3 | 60.9 | 32.3 |
| 1.67 V | 628.5 | 539.3 | 439.9 | 384.4 | 332.5 | 208.2 | 157.3 | 125.8 | 105.8 | 91.5 | 73.9 | 61.4 | 32.6 |
| 1.60 V | 648.5 | 553.0 | 444.2 | 400.0 | 345.4 | 215.3 | 162.1 | 129.3 | 108.6 | 93.6 | 75.4 | 62.6 | 33.1 |

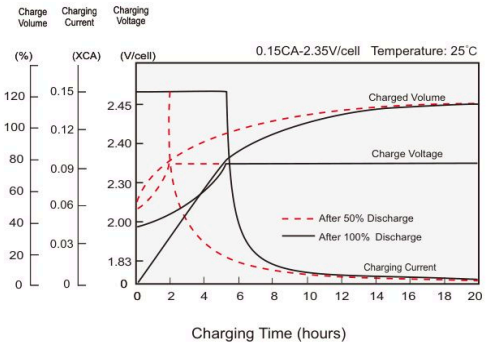
F.V. = son gerilim (V/hücre) / final voltage (V/cell) · min = dakika, h = saat / minutes, hours

## 03 PERFORMANS EĞRİLERİ / PERFORMANCE CURVES

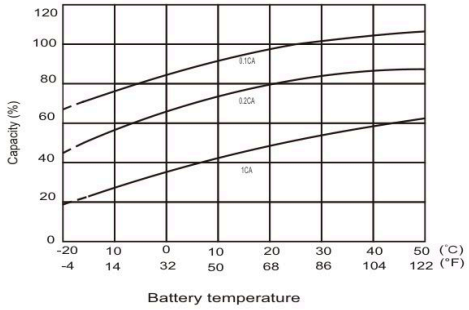
### DEŞARJ KARAKTERİSTİKLERİ
DISCHARGE CHARACTERISTICS



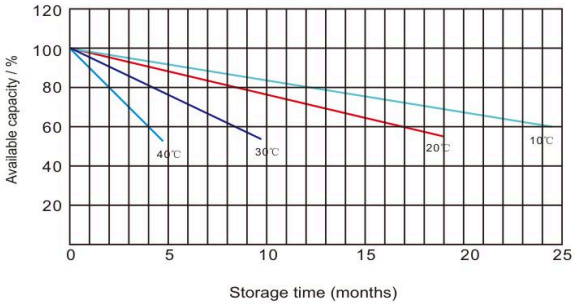

### ŞARJ KARAKTERİSTİKLERİ
CHARGING CHARACTERISTICS




### 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.