

12 V 190Ah (C₅) Light Traction Flooded Battery

PHYSICAL CHARACTERISTICS

| | SI Units | US Units |
|----------------|----------|------------|
| Length | 518 mm | 20.2 inch |
| Width | 274 mm | 10.8 inch |
| Height | 242 mm | 7.9 inch |
| Typical weight | 58 kg | 127.87 lbs |



Specifications:

- Nominal voltage: 12 V
- Rated capacity: 190 Ah (at C₅ and 30 °C)
- Plate technology: Antimony / Antimony
- Separator: Polyethylene + glass mat
- Electrolyte: Sulphuric acid; analytical grade
- Standards: IEC 60254; IEC 60095; IEC 61427
- Case / Lid material: Polypropylene
- Lid type: Flat
- Terminal type: Top / Automotive
- Carrying Handles: Available
- Cycles at 75% DoD: more than 400
- PVES applications: more than 800 cycles

Performance characteristics:

BATTERY DISCHARGE PERFORMANCE AT 25°C

| Discharge rate | C ₅ (5 h) | C ₂₀ (20 h) | C ₁₀₀ (100 h) | Capacity at 25 A |
|--------------------------|----------------------|------------------------|--------------------------|---------------------|
| End of discharge voltage | 10.20 V | 10.50 V | 10.80 V | 10.50 V |
| Discharge capacity | 190 Ah | 230 Ah | 240 Ah | 460 min / 191.67 Ah |

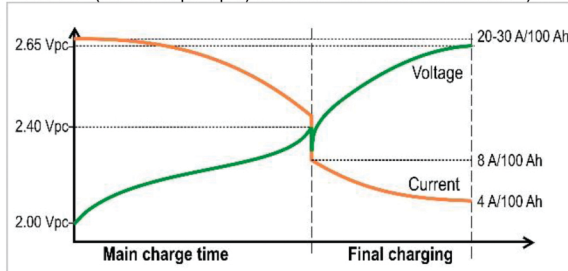
Temperature correction factor of discharge C₅ (5 h) capacity

| Temperature | -10 °C | 0 °C | 20 °C | 25 °C | 30 °C | 35 °C | 40 °C |
|-------------------|--------|------|-------|-------|-------|-------|-------|
| Correction factor | 0.76 | 0.82 | 0.94 | 0.97 | 1.00 | 1.03 | 1.06 |

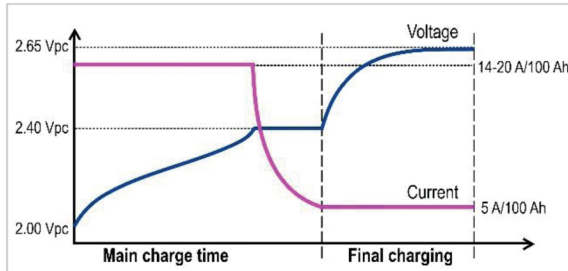
BATTERY CHARGE CONDITIONS (acc. DIN 41773, DIN 41774 and ZVEI recommendations)

Charging profiles: WaW0 and IU1a Charge factor: 1.10 – 1.20

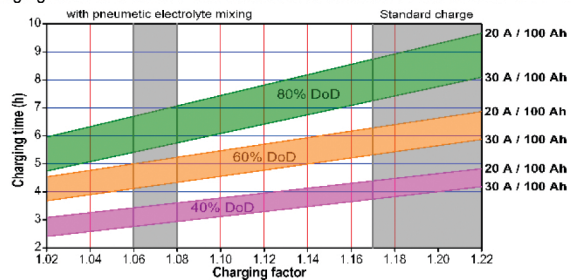
WaW0 – (double slope taper) characteristics for flooded batteries



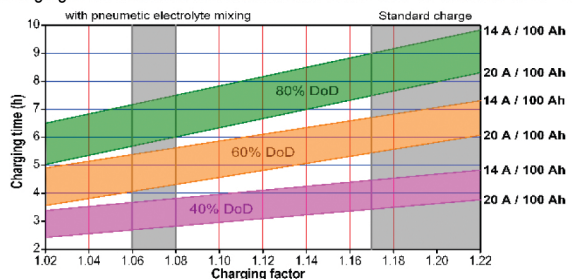
IU1a – characteristics for flooded batteries



Charging times with WaW0-characteristics in hours for PzS batteries at 30 °C



Charging times with IU1a-characteristics in hours for PzS batteries at 30 °C



It is mandatory to check the electrolyte level every 3 months and top up with deionized water to the markings.