

# TECHNICAL DATA SHEET



## SEMI TRACTION

UTILITY, SOLAR & MARINE

**96351 - 12V 180 Ah (C<sub>20</sub>)**

# EVERSOL

### PHYSICAL CHARACTERISTICS

	SI Units	US Units
Length	513 mm	20.2 inch
Width	223 mm	8.4 inch
Height	223 mm	8.7 inch
Typical weight	47 kg	103.62 lbs

### Specifications:

- Nominal voltage: 12 V
- Rated capacity: 180 Ah (at C<sub>20</sub> and 30 °C)
- Plate technology: Antimony / Antimony
- Separator: Polyethylene + glass mat
- Electrolyte: Sulphuric acid; analytical grade
- Standards: IEC 60254; IEC 61427
- Case / Lid material: Polypropylene
- Lid type: Flat
- Terminal type: Top / Automotive
- Carrying Handles: Available
- Cycles at 50% DoD: up to 400 cycles
- PVES applications: up to 800 cycles

### Performance characteristics:

#### BATTERY DISCHARGE PERFORMANCE AT 25°C

Discharge rate	C <sub>5</sub> (5 h)	C <sub>20</sub> (20 h)	C <sub>100</sub> (100 h)	Capacity at 25 A
End of discharge voltage	10.20 V	10.50 V	10.80 V	10.50 V
Discharge capacity	155 Ah	180 Ah	198 Ah	365 min

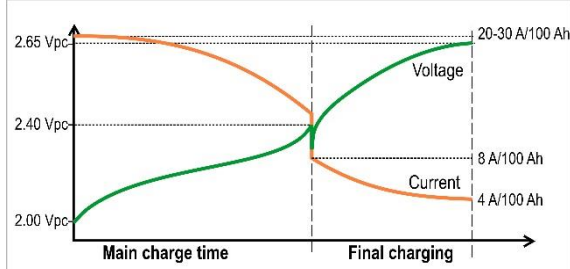
#### Temperature correction factor of discharge C<sub>5</sub> (5 h) capacity

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

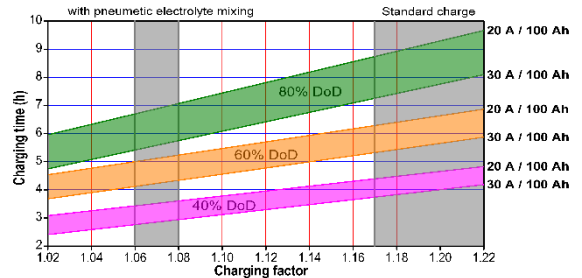
#### BATTERY CHARGE CONDITIONS (according DIN 41773 and DIN 41774)

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

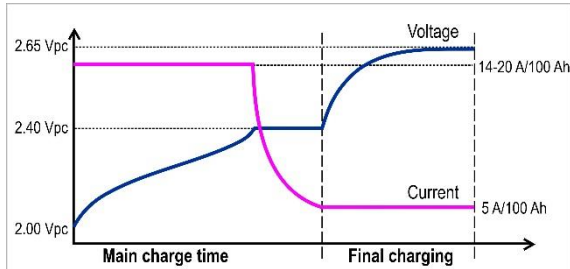
WaW0 – (double slope taper) characteristics for flooded batteries



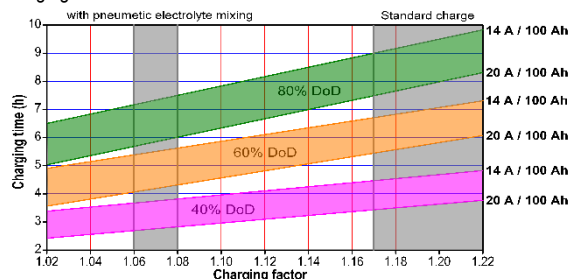
Charging times with WaW0-characteristics in hours for PzS batteries at 30 °C



IU1a –characteristics for flooded batteries



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.**