



\* Fuse recommended. Please verify directive for applicable installation regarding fuses

## General Information

**Starter battery:**

Typically 55Ah to 100Ah for automotive applications.

A start battery should never be deeply discharged.

**Alternator:**

If the alternator is a "smart alternator" that can adjust voltage level by the engine control module or similar. To get D250SA support a Smart alternator you connect the Red Smart Alternator cable to the ignition.

**Battery charger (AC):**

When regular discharge on both Service and Starter battery, a Battery charger required. Connect the Battery charger on Starter battery and both Starter and Service battery will be individually recharged from the Battery charger and D250SA.

Select a charger that is suitable regarding the capacity of the battery bank and also the requirement of recharge time. A typical charger is MXS25 or M300.

**Service battery:**

Size 40Ah to 300Ah. If Service battery is bigger than 100Ah, a SMARTPASS is recommended together with D250SA to shorten the charging time. SMARTPASS is also recommended if Service battery is less than 100Ah but have consumption during driving. Batteries are connected in parallel to increase capacity (Ah). Suitable deep cycle batteries should be used.

**Wiring:**

Please see instruction manual for suitable dimensions. Please verify directive for applicable installation regarding wiring. A thick wire generate less voltage drop than a thinner wire at high current.

**D250SA:**

Install according to instruction manual.

**Fuses:**

If fuses are used, mount the fuses as close to each battery as possible. Suitable fuse size:  
D250SA: 30A  
Please verify directive for applicable installation regarding fuses.

**Temperature sensor:**

Attach the temperature sensor onto the service battery.

**Charge voltage:**

You can choose between 14.4V and 14.7V (AGM) on D250SA.  
If you not connect the Black AGM cable you get 14.4V  
If you connect the Black AGM cable to minus you get 14.7V.