Correct wiring!

Additionally, one of the DC sources outputs or the load DC input may be grounded.
Wrong wiring!
The minus DC outputs of both source must not be grounded, because AGND now has the same potential as DC- and high current may flow.
If the connection between DC source 1 minus output and DC input - of the load is broken or removed, current will flow over AGND and damage the analogue interface.
Wrong wiring!
The minus DC outputs of both source must not be connected, because AGND now has the same potential as DC- and high current may flow.
If the connection between DC source 1 minus output and DC input - of the load is broken or removed, current will flow over AGND and damage the analogue interface.

Minus DC input and AGND of the analogue interface are internally connected!