DINGO Regulator Float Integration

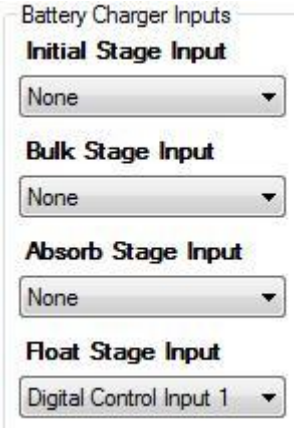
Introduction

The SP PRO and DINGO regulator can be connected and configured so that the charging stage of the SP PRO will change to Float when signalled by the DINGO regulator. This keeps both SP PRO and DINGO working to the same charge stage.

SP PRO Configuration

The SP PRO is configured by default to accept the Float input on Digital Control Input 1. Float Stage Input would only need to be changed from default if Digital Control Input 1 is being used for another purpose.

This is set to accept the Float signal from the DINGO regulator.



DINGO Regulator Configuration

The DINGO 'G' output can be set to give an active signal when it's in float.

SET/ PROG=4
NOTE: If changing from generic PROG=0,1,2,or 3, you should check that all the settings under the SET/REG menu are correct for your application as these may be different from the generic (PROG=0-3) settings.

SET/MODE/GSET=4 if using the 'G' terminal, as shown in diagram.

SET/EVNT…
STRT=0 (always starts)
STOP=0 (stop never active)
----- (the above settings have the effect of making the STRT and STOP irrelevant)

EMOD=1 (in float with Low Battery Disconnect override)
TMOD=0 (always active).

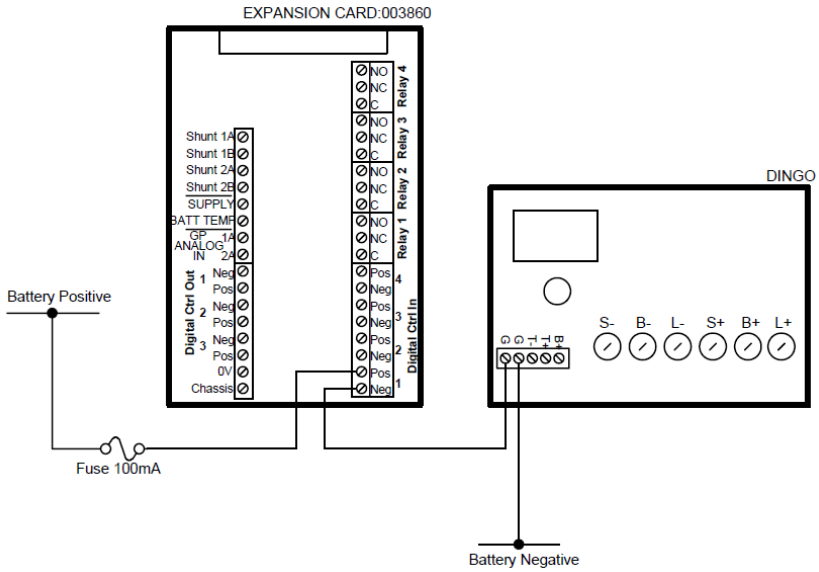
This is now set to signal the SP PRO when to change to Float stage.

SP PRO Interactive Inverter Charger
Technical Note

SP PRO and DINGO Wiring

The SP PRO Digital Control Inputs needs to be powered, from the battery bank is easiest.

1. Connect Battery Positive via a suitable fuse – 100mA is sufficient - into DGTL CTRL IN 1 POS terminal on Expansion Card.
2. DGTL CTRL IN 1 NEG connects through to the DINGO 'G' terminal.
3. DINGO 'G' terminal connects through to Battery Negative.



Note: Digital Inputs are independent current limited inputs which are 'opto' isolated and reverse polarity protected.

Test Operation

The DINGO regulator can be manually moved through its charging stages. A long-push on the
BATV menu will show the current charging phase. Subsequent long-pushes will move the DINGO into the next phase in the cycle.

Move the DINGO through to Float phase and the SP PRO will also switch to Float stage. If this doesn't occur, check the wiring and settings in both SP PRO and DINGO.

Note: The SP PRO will only switch back to initial when the battery voltage falls below the Initial Return voltage and not when the DINGO is moved to other charge phases.

Additional Information

SP PRO web site – http://www.sppro.com.au

DINGO Reference Manual see downloads section from Plasmatronics web site – http://www.plasmatronics.com.au/

Any questions or queries can be directed to the Selectronic Sales Team.

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