

**IE Ref. no: DO**
**Date:**

Parameter (settings at 20 degreesC)		Specified Settings	Default Settings
V float			2.3V/cell
V boost			2.45V/cell
Standing load (A) - maximum allowable		1% of I rated	1% of I rated
Current limit (A)			I rated
Over temperature cutout , degrees C (only for Li-ion batteries)			NO
*Current initiated boost point (% of rated current, A)			15%
*Current terminated boost point (% of rated current, A)			10%
<b>Microprocessor Settings</b>			
Code	Description		
*SBS	<b>Start in Boost State</b> at charger start-up		YES
*CTB	<b>Current Terminated Boost</b> - allows termination of boost charge via the detection of a predefined value of charge current (default = 15% of max charge current)		YES
*CIB	<b>Current Initiated Boost</b> - allows initiation of boost charge via the detection of a predefined value of charge current (default = 10% of max charge current)		YES
*MRSB	<b>Mains Return Start Boost</b> - after the detection that mains has been restored to the charger a boost charge cycle will be initiated.		YES
PBT (minutes)	<b>Pre-Boost State Time</b> - the time the charger will always stay at the elevated boost voltage whenever an attempt is made to enter a boost charge cycle		1
BT (1-48 hours)	<b>Boost Time</b> - The maximum time the charger can spend in a boost charge cycle. If the charger is still in boost after this time it will enter the <b>forced float</b> state. Reset by turning mains off and on. The forced float state does not allow any further boost cycles unless initiated by user initiated boost button press.		24
PFT (minutes)	<b>Pre Float Time</b> - the time the charger will always stay at the float voltage whenever an attempt is made to enter a float charge cycle		1
RMFT (1-255 minutes)	<b>Recall Mains Fail Time</b> - maximum time of a mains fail where on the reoccurrence of mains the charger will resume charging in the mode as prior to the mains fail		10
MFT (1-24 hours)	<b>Mains Fail Time</b> - the time of a mains fail after which the charger will always restart with a boost cycle when mains reoccurs.		24
PFFT (1-255 minutes)	<b>Pre Forced Float Time</b> - the time the charger will always stay at the float voltage whenever an attempt is made to enter a forced float charge cycle		1
DBMFA (0.06-8.5 minutes)	<b>Delay before mains fail alarm</b> - the time before alarm activated on a mains failure ('E' versions)		5
	<b>New SFBOOST .. code to be allocated</b> (IE use only)		

\* Settings not available with high voltage SR500/SR750 versions (64V and above), default setting = NO

The following is a list of all the existing versions of firmware:

CODE	A	B	D	E	F	G	I	J	K	L	M	N	P	Q	R
<b>SBS</b>	NO	YES	YES	YES	NO	NO	YES	NO	NO	YES	YES	YES	NO	YES	NO
<b>CTB</b>	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO
<b>CIB</b>	NO	YES	NO	YES	NO	NO	NO	NO	NO	YES	NO	YES	NO	NO	NO
<b>MRSB</b>	NO	YES	YES	YES	NO	NO	NO	NO	NO	YES	NO	YES	NO	YES	NO
<b>PBT(mins)</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>BT (hours)</b>	24	24	8	12	24	0.02	24	8	4	8	8	7	2	7	1
<b>PFT(mins)</b>	1	1	1	1	1	1	1	1	1	10	1	1	1	1	1
<b>RMFT(mins)</b>	10	10	10	10	240	240	255	10	1	24	255	10	10	10	70
<b>MFT (hours)</b>	24	24	24	24	24	24	24	24	N/A	1	24	24	24	24	24
<b>PFFT (mins)</b>	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
<b>DBMFA(mins)</b>	5	5	5	5	1	5	5	1	1	1	1	5	5	5	5

CODE	S	T	U	V	W	X	Y	Z	ZA	ZB					
<b>SBS</b>	NO	YES	NO	NO	YES	YES	YES	YES	NO	NO					
<b>CTB</b>	YES	YES	NO	YES	YES	YES	YES	YES	NO	YES					
<b>CIB</b>	NO	NO	NO	NO	YES	YES	YES	NO	NO	NO					
<b>MRSB</b>	NO	YES	NO	NO	YES	YES	YES	YES	NO	YES					
<b>PBT (mins)</b>	1	1	1	1	1	1	1	1	1	1					
<b>BT (hours)</b>	4	4	5	2	24	2	4	8	2	2					
<b>PFT (mins)</b>	1	1	1	1	1	1	1	1	1	1					
<b>RMFT (mins)</b>	1	10	255	255	10	10	10	10	10	10					
<b>MFT (hours)</b>	255	24	24	24	0	24	24	1	2	1					
<b>PFFT (mins)</b>	1	1	1	1	1	1	1	1	1	1					
<b>DBMFA (mins)</b>	0.1	5	5	5	0	5	5	5	0.1	1					

**Notes:**

- B** = Standard (default) version - these settings apply if no changes are requested at time of order
- G** = all boost functions disabled, this firmware is used to obtain electronic reverse polarity protection
- S** = No LED flash codes on mains fail, all other codes operational
- N/A** = not applicable