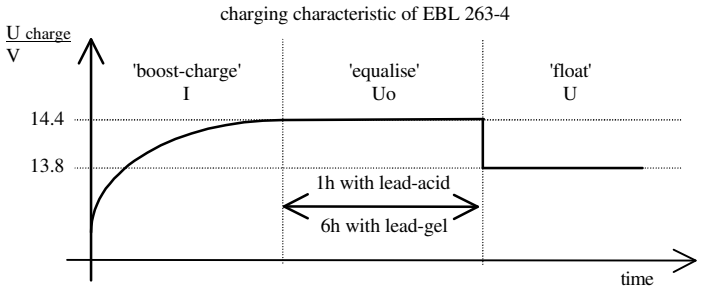
1.2.2.1 Battery charging ...
... on mains supply

living-area battery:

control system	*	thyristor controller
charging characteristic	*	IWUoU
maximum charging voltage	*	14.4V
charging current	*	10A arithmetic mean or 15A eff at 230V mains supply and 12.0V charging voltage. The charging current is mains supply dependent.
floating voltage	*	13.8V, automatic change-over
new charging cycle, change-over to boost-charge	*	if battery voltage is approx < 13.8V

3-phase characteristic:



* boost-charge at 10A max (arithmetic mean, electronically limited) up to maximum charging voltage,
* then equalise-charge at constant 14.4V, selectable: 1h duration for lead-acid, 6h duration for lead-gel batteries,
* then automatic change-over to float-charge at 13.8V

  If due to high loads the float voltage of 13.8V can not be provided, the battery charger switches over from float to boost-charge.

safety circuits	*	short-circuit and reverse-polarity protected, charger needs a connected battery with a voltage of > 2.5V
	*	safety fuse in mains supply, 1.6A slow
	*	over-temperature switch in transformer

starter battery:

charging current	*	trickle-charge to starter battery with max 2A

... while driving

charging current	*	Simultaneous charging of starter and living-area battery by alternator, batteries in parallel by cut-off relay, maximum charging current by alternator must not exceed 30A, see block diagram.

2. Safety Information

* The electrical installation of the motorhome has to be in accordance with current DIN-, VDE- and ISO-regulations. Alterations will endanger the safety of persons and the vehicle.
  Due to the above mentioned regulations and safety rules, alterations are therefore prohibited.
* The connection of the EBL to the mains supply has to be in accordance to national installation rules.
* The energy system EBL 263-4 must not be modified.
* The connection of the energy system should be carried out by qualified personnel only and must be conform to specifications mentioned in this operating instruction manual:

see instruction manual	section 4.2 'Installation'
	section 5 'Electrical Installation'
and in enclosure	schematic diagram of EBL 263-4

note: operating instruction manual is intended for the owner and has to come with the EBL