

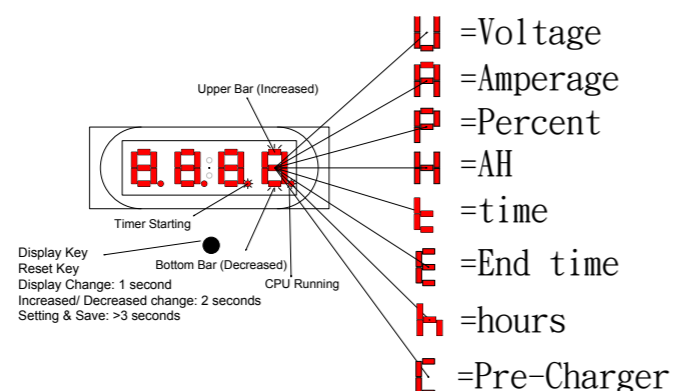


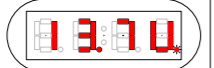
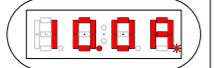
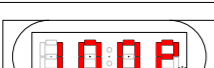




.....
USER MANUAL

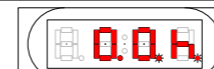


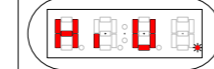


Automatic Battery Charger

RND.305-00012 &
RND 305-00014

Automatic Battery Charger Specifications & User Manual



Item	Descriptions (Ver: 2.34)
	O/P Voltage "V": Preinstall demonstration.
	O/P Current "A": Press "Display Key" for 1 seconds while displaying "V" to display the O/P current (charging current) value.
	Battery Level "P": Press "Display Key" for 1 seconds while displaying "A" to display the Battery Capacity (battery level) value.
	O/P Current Adjustment (this will not change real O/P current): Press and hold "Display Key" for 3 seconds while displaying "P" to enable O/P current adjustment (for authorized technicians only). Upper Bar twinkle: Press "Display Key" to increase the value. Bottom Bar twinkle: Press "Display Key" to decrease the value. Press and hold "Display Key" for 3 seconds to save the new value.
	Total Charging Capacity "AH" (Ampere-Hour): Start AH calculation when charging current >1A, "H" twinkle when "AH" function operating. Press and hold "Display Key" for 3 seconds while displaying "H" to enable AH to zero. "H" stop twinkle when "AH" function stop operating.
	Timer time: Start counting after "AH" function operating.
	Charging Timer Setting (0.1H-0.2H-0.3H-): Start timer when voltage >setting value or current <30% of rating. Press & hold "Display Key" for 3 seconds while displaying "E" to enable timer setting. (Upper Bar: increase; Bottom Bar: decrease) Press and hold "Display Key" for 3 seconds to save the new setting value. The 3rd dot signal flashes light means the timer is starting and while the timer stop the 3rd dot signal solid lights.

Item	Descriptions (Ver: 2.34)
	Timer time: Star counting after "E" (timer) function operating. When o/p current under setting value, the 2nd dot signal flashes. It will display the total time of charge after battery has been full charged. According to the value, the user can setting the perfect charging time for his own battery. Ex. If the total time is 1 hour, user can setting the value at 1.0.E.
 	Float Charging: 1. Current <30% of rating, the display will show "x.x h.". If the charging current drop to <10% of rating current, the timer will stop automatically and the timer will show the total charging time from 30% to 10% of rating current. 2. When over timer setting but current >10% of rating, the display will show "x.x.h." (The 2nd dot signal solid light means that the charger switch to float charging stage is by timer setting not current setting) When the charger displays "x.x.h." or "x.x h." and green LED lights, you can press "Display Key" to reset the display to "V" (voltage)
 	High Voltage (Over Charging): If the battery voltage over the setting value, the display will show "H.V." & "xx.xV" alternately, meanwhile, the charger will switch to float charging stage & LED green lights. It will charge battery again (reset) while the battery voltage down to the normal voltage.
	Pre-charging: When battery voltage < setting value, the pre-charge timer start counting. Press & hold "Display Key" for 3 seconds while displaying "C" to enable timer setting (Upper Bar: increase; Bottom Bar: decrease, each step will increase or decrease 0.1 hour). Press & hold "Display Key" for 3 seconds to save the new setting value.

Pulse Charging Stage: The charger will switch to pulse charging stage when the charging current is >50% of rating current. The pulse charging stage will be kept about 30 seconds and then go to pre-charging stage and 20 seconds later go to constant current charging stage.