CHILWEE GRAPHENE 12V32AH/20HR Long-life Battery Charger Technical Requirements

1. The charging procedure is as follows：

12V32AH/20HR (48V) Charger

Model	Constant current charging		Constant-voltage charging			Trickle charging	
	Current I_1	Charging Voltage V_1	Charging Voltage V_2	Current I_2	Current when the indicator lamp of charger turns I_3	Current I_4	Maximum voltage V_3
12V32AH/20HR (4PCS)	4.0 (±0.1A)	57.6 (±0.2V)	58.8±0.2V	4±0.05A	0.72±0.05A	0.36 A	62.4±0.2V
	limited time of Constant current charging		limited time of Constant-voltage charging			limited time of Trickle charging	
limited time	≤5.5h		1.6+0.05×(25-T) T is ambient temperature (compensation temperature range is -10℃ - 27℃)			1.5h	

12V32AH/20HR (60V) Charger

Model	Constant current charging		Constant-voltage charging			Trickle charging	
	Current I_1	Charging Voltage V_1	Charging Voltage V_2	Current I_2	Current when the indicator lamp of charger turns I_3	Current I_4	Maximum voltage V_3
12V32AH/20HR (5PCS)	4.0 (±0.1A)	72.0 (±0.2V)	73.5±0.2V	4±0.05A	0.72±0.05A	0.36 A	78.0±0.2V
	limited time of Constant current charging		limited time of Constant-voltage charging			limited time of Trickle charging	
limited time	≤5.5h		1.6+0.05×(25-T) T is ambient temperature (compensation temperature range is -10℃-27℃)			1.5h	

12V32AH/20HR (72V) Charger

Model	Constant current charging		Constant-voltage charging			Trickle charging	
	Current I_1	Charging Voltage V_1	Charging Voltage V_2	Current I_2	Current when the indicator lamp of charger turns I_3	Current I_4	Maximum voltage V_3
12V32AH/20HR (6PCS)	4.0 (±0.1A)	86.4(±0.2V)	88.2±0.2V	4±0.05A	0.72±0.05A	0.36 A	93.6±0.2V
	limited time of Constant current charging		limited time of Constant-voltage charging			limited time of Trickle charging	
limited time	≤5.5h		1.6+0.05×(25-T) T is ambient temperature (compensation temperature range is -10℃ - 27℃)			1.5h	

2. The charger has a temperature compensation function, which automatically reduces the constant-voltage charging voltage according to the compensation coefficient at high temperature, and automatically increases the constant-voltage charging voltage according to the compensation coefficient at low temperature. The compensation coefficient is: 2.5~3.0mV/ (per piece • ℃, e.g. 48V charger, the ambient temperature is 30℃, then its constant-voltage charging voltage is: 58.8V- (30-25)×(0.0025~0.003)×24=58.44~58.50)
3. The charger has a function to prevent the battery from "thermal runaway".
4. The charger has a fully charged automatically stop charging function
5. The charger's own protection function: according to the requirements of electric vehicle manufacturers.