

Overview of Charging Characteristics BART02A1

No.	Battery voltage	Battery type	Battery capacity	I ₁	U ₁	I ₂	U ₂	I ₃	T _{I1 max}	TU _{1 max}	TU ₃	Note
0	12 V	FVLA	200 Ah ... 250 Ah	80 A	14.4 V	6.5 A	13.5 V	80 A	5 h	6 h	∞	
1	12 V	FVLA	250 Ah ... 360 Ah	100 A	14.4 V	9.0 A	13.5 V	100 A	6 h	7 h	∞	
2	12 V	FVLA	360 Ah ... 500 Ah	100 A	14.4 V	13.4 A	13.5 V	100 A	8 h	9 h	∞	
3	12 V	FVLA	500 Ah ... 700 Ah	100 A	14.4 V	17.9 A	13.5 V	100 A	11 h	2 h	∞	
4	12 V	FVLA	700 Ah ... 1000 Ah	100 A	14.4 V	22.9 A	13.5 V	100 A	11 h	12 h	∞	
5	12 V	VRLA	200 Ah ... 250 Ah	80 A	14.1 V	3.5 A	13.6 V	80 A	5 h	6 h	∞	
6	12 V	VRLA	250 Ah ... 360 Ah	100 A	14.1 V	5.0 A	13.6 V	100 A	6 h	7 h	∞	
7	12 V	VRLA	360 Ah ... 500 Ah	100 A	14.1 V	7.0 A	13.6 V	100 A	8 h	9 h	∞	
8	12 V	VRLA	500 Ah ... 700 Ah	100 A	14.1 V	9.5 A	13.6 V	100 A	11 h	2 h	∞	
9	12 V	VRLA	700 Ah ... 1000 Ah	100 A	14.1 V	12.0 A	13.6 V	100 A	11 h	12 h	∞	
A	12 V	VRLA*	200 Ah ... 250 Ah	80 A	14.4 V	3.5 A	13.8 V	80 A	5 h	6 h	∞	
B	12 V	VRLA*	250 Ah ... 360 Ah	100 A	14.4 V	5.0 A	13.8 V	100 A	6 h	7 h	∞	
C	12 V	VRLA*	360 Ah ... 500 Ah	100 A	14.4 V	7.0 A	13.8 V	100 A	8 h	9 h	∞	
D	12 V	VRLA*	500 Ah ... 700 Ah	100 A	14.4 V	9.5 A	13.8 V	100 A	11 h	2 h	∞	
E	12 V	VRLA*	700 Ah ... 1000 Ah	100 A	14.4 V	12.0 A	13.8 V	100 A	11 h	12 h	∞	
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FVLA: open lead-acid batteries, batteries with water refill

VRLA: Valve-regulated lead-acid batteries, maintenance-free wet batteries

VRLA*: Gel batteries, AGM

Description

1. If a temperature sensor (CTS/TS) is connected and the battery temperature is higher than 45°C, the charging current is reduced to 50%. Only when the battery temperature falls below 40°C again does the charging capacity increase to 100%.
2. If a temperature sensor (CTS/TS) is connected and the battery temperature is higher than 50°C, the charger switches off until the battery temperature is below 45°C.
3. If a temperature sensor (CTS/TS) is connected, the output voltage will be increased by 21 mV per degree if the battery temperature is below 25°C and decreased if the battery temperature is above 25°C.
4. If the time T_{I1 max} is exceeded, the charger switches off and the red LED flashes.
5. If the time TU_{1 max} is exceeded, the next charging phase begins automatically.

