

Overview of Charging Characteristics BJ115CaA4

No.	Battery voltage	Battery type	Battery capacity	I ₁	U ₁	I ₂	U ₃	I ₃	T _{I1 max}	TU _{1 max}	TU ₃	Note
0	24 V	FVLA	100 Ah ... 133 Ah	33 A	28.8 V	2.4 A	27.0 V	33 A	5 h	6 h	∞	
1	24 V	FVLA	133 Ah ... 187 Ah	40 A	28.8 V	3.2 A	27.0 V	40 A	6 h	7 h	∞	
2	24 V	FVLA	187 Ah ... 253 Ah	40 A	28.8 V	4.4 A	27.0 V	40 A	8 h	9 h	∞	
3	24 V	FVLA	253 Ah ... 333 Ah	40 A	28.8 V	5.9 A	27.0 V	40 A	11 h	12 h	∞	
4	24 V	FVLA	333 Ah ... 400 Ah	40 A	28.8 V	7.3 A	27.0 V	40 A	11 h	12 h	∞	
5	24 V	VRLA	100 Ah ... 133 Ah	33 A	28.2 V	1.2 A	27.0 V	33 A	5 h	6 h	∞	
6	24 V	VRLA	133 Ah ... 187 Ah	40 A	28.2 V	1.6 A	27.0 V	40 A	6 h	7 h	∞	
7	24 V	VRLA	187 Ah ... 253 Ah	40 A	28.2 V	2.3 A	27.0 V	40 A	8 h	9 h	∞	
8	24 V	VRLA	253 Ah ... 333 Ah	40 A	28.2 V	2.9 A	27.0 V	40 A	11 h	12 h	∞	
9	24 V	VRLA	333 Ah ... 400 Ah	40 A	28.2 V	3.7 A	27.0 V	40 A	11 h	12 h	∞	
A	24 V	VRLA*	100 Ah ... 133 Ah	33 A	28.8 V	1.2 A	27.0 V	33 A	5 h	6 h	∞	
B	24 V	VRLA*	133 Ah ... 187 Ah	40 A	28.8 V	1.6 A	27.0 V	40 A	6 h	7 h	∞	
C	24 V	VRLA*	187 Ah ... 253 Ah	40 A	28.8 V	2.3 A	27.0 V	40 A	8 h	9 h	∞	
D	24 V	VRLA*	253 Ah ... 333 Ah	40 A	28.8 V	2.9 A	27.0 V	40 A	11 h	12 h	∞	
E	24 V	VRLA*	500 Ah ... 600 Ah	40 A	28.8 V	3.7 A	27.0 V	40 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 42 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.

