

Overview of Charging Characteristics J520C

No.	Battery voltage	Battery type	Battery capacity	I ₁	U ₁	I ₂	I ₃	U ₃	T _{I1 max}	TU _{1 max}	TU ₃	Note
0	12 V	FVLA	110 Ah ... 175 Ah	30 A	14.4 V	2.8 A	30 A	13.5 V	7 h	8 h	∞	
1	12 V	FVLA	175 Ah ... 250 Ah	40 A	14.4 V	3.8 A	40 A	13.5 V	7,5 h	8,5 h	∞	
2	12 V	FVLA	250 Ah ... 320 Ah	40 A	14.4 V	5.1 A	50 A	13.5 V	8 h	9 h	∞	
3	12 V	FVLA	320 Ah ... 400 Ah	40 A	14.4 V	6.7 A	50 A	13.5 V	10 h	11 h	∞	
4	12 V	FVLA	400 Ah ... 480 Ah	40 A	14.4 V	9.6 A	50 A	13.5 V	13 h	14 h	∞	
5	12 V	VRLA	110 Ah ... 175 Ah	30 A	14.1 V	1,4 A	30 A	13.5 V	7 h	8 h	∞	
6	12 V	VRLA	175 Ah ... 250 Ah	40 A	14.1 V	1.9 A	40 A	13.5 V	7,5 h	8,5 h	∞	
7	12 V	VRLA	250 Ah ... 320 Ah	40 A	14.1 V	2.6 A	50 A	13.5 V	8 h	9 h	∞	
8	12 V	VRLA	320 Ah ... 400 Ah	40 A	14.1 V	3.5 A	50 A	13.5 V	10 h	11 h	∞	
9	12 V	VRLA	400 Ah ... 480 Ah	40 A	14.1 V	4.6 A	50 A	13.5 V	13 h	14 h	∞	
A	12 V	VRLA*	110 Ah ... 175 Ah	30 A	14.4 V	1.4 A	30 A	13.8 V	7 h	8 h	∞	
B	12 V	VRLA*	175 Ah ... 250 Ah	40 A	14.4 V	1.9 A	40 A	13.8 V	7,5 h	8,5 h	∞	
C	12 V	VRLA*	250 Ah ... 320 Ah	40 A	14.4 V	2.6 A	50 A	13.8 V	8 h	9 h	∞	
D	12 V	VRLA*	320 Ah ... 400 Ah	40 A	14.4 V	3.5 A	50 A	13.8 V	10 h	11 h	∞	
E	12 V	VRLA*	400 Ah ... 480 Ah	40 A	14.4 V	4.6 A	50 A	13.8 V	13 h	14 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.

