

Overview of Charging Characteristics J117C

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	75 Ah ... 100 Ah	25 A	14.4 V	1.8 A	25 A	13.5 V	5 h	6 h	∞	
1	12 V	FVLA	100 Ah ... 140 Ah	30 A	14.4 V	2.4 A	30 A	13.5 V	6 h	7 h	∞	
2	12 V	FVLA	140 Ah ... 190 Ah	30 A	14.4 V	3.3 A	30 A	13.5 V	8 h	9 h	∞	
3	12 V	FVLA	190 Ah ... 250 Ah	30 A	14.4 V	4.4 A	30 A	13.5 V	11 h	12 h	∞	
4	12 V	FVLA	250 Ah ... 300 Ah	30 A	14.4 V	5.5 A	30 A	13.5 V	11 h	12 h	∞	
5	12 V	VRLA	75 Ah ... 100 Ah	25 A	14.1 V	0.9 A	25 A	13.6 V	5 h	6 h	∞	
6	12 V	VRLA	100 Ah ... 140 Ah	30 A	14.1 V	1.2 A	30 A	13.6 V	6 h	7 h	∞	
7	12 V	VRLA	140 Ah ... 190 Ah	30 A	14.1 V	1.7 A	30 A	13.6 V	8 h	9 h	∞	
8	12 V	VRLA	190 Ah ... 250 Ah	30 A	14.1 V	2.2 A	30 A	13.6 V	11 h	12 h	∞	
9	12 V	VRLA	250 Ah ... 300 Ah	30 A	14.1 V	2.8 A	30 A	13.6 V	11 h	12 h	∞	
A	12 V	VRLA*	75 Ah ... 100 Ah	25 A	14.4 V	0.9 A	25 A	13.8 V	5 h	6 h	∞	
B	12 V	VRLA*	100 Ah ... 140 Ah	30 A	14.4 V	1.2 A	30 A	13.8 V	6 h	7 h	∞	
C	12 V	VRLA*	140 Ah ... 190 Ah	30 A	14.4 V	1.7 A	30 A	13.8 V	8 h	9 h	∞	
D	12 V	VRLA*	190 Ah ... 250 Ah	30 A	14.4 V	2.2 A	30 A	13.8 V	11 h	12 h	∞	
E	12 V	VRLA*	250 Ah ... 300 Ah	30 A	14.4 V	2.8 A	30 A	13.8 V	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.

