

Overview of Charging Characteristics VJ022A2

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	48 V	VRLA*	210 Ah ... 640 Ah	64 A	57.6 V	19.2 A	55.2 V	64 A	20 h	10 h	∞	
1	48 V	VRLA*	170 Ah ... 510 Ah	51 A	57.6 V	15.4 A	55.2 V	51 A	20 h	10 h	∞	
2	48 V	VRLA*	130 Ah ... 390 Ah	38.5 A	57.6 V	11.5 A	55.2 V	38.5 A	20 h	10 h	∞	
3	48 V	VRLA*	85 Ah ... 255 Ah	25.6 A	57.6 V	7.8 A	55.2 V	25.5 A	20 h	10 h	∞	
4	48 V	VRLA*	210 Ah ... 640 Ah	64 A	57.1 V	19.2 A	54 V	64 A	20 h	10 h	∞	
5	48 V	VRLA*	170 Ah ... 510 Ah	51 A	57.1 V	15.4 A	54 V	51 A	20 h	10 h	∞	
6	48 V	VRLA*	130 Ah ... 390 Ah	38.5 A	57.1 V	11.5 A	54 V	38.5 A	20 h	10 h	∞	
7	48 V	VRLA*	85 Ah ... 255 Ah	25.6 A	57.1 V	7.8 A	54 V	25.6 A	20 h	10 h	∞	
8	48 V	FVLA	210 Ah ... 640 Ah	64 A	58.8 V	32 A	54.5 V	64 A	20 h	10 h	∞	
9	48 V	FVLA	170 Ah ... 510 Ah	51 A	58.8 V	25.6 A	54.5 V	51 A	20 h	10 h	∞	
A	48 V	FVLA	130 Ah ... 390 Ah	38.5 A	58.8 V	19.2 A	54.5 V	38.5 A	20 h	10 h	∞	
B	48 V	FVLA	85 Ah ... 255 Ah	25.6 A	58.8 V	12.8 A	54.5 V	25.6 A	20 h	10 h	∞	
C	48 V	VRLA*	210 Ah ... 640 Ah	64 A	57.6 V	19.2 A	55.2 V	64 A	20 h	10 h	∞	
D	48 V	VRLA*	170 Ah ... 510 Ah	51 A	57.6 V	15.4 A	55.2 V	51 A	20 h	10 h	∞	
E	48 V	VRLA*	130 Ah ... 390 Ah	38.5 A	57.6 V	11.5 A	55.2 V	38.5 A	20 h	10 h	∞	
F	48 V	VRLA*	85 Ah ... 255 Ah	25.6 A	57.6 V	7.8 A	55.2 V	25.5 A	20 h	10 h	∞	

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 84 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.

