

Infrastructure Specifications

Terminal Feeding Station

a) Rectifier

Output voltage	from 330 Vdc to 500 Vdc
Input voltage	400 Vrms 50 Hz three phase
Efficiency	97.5%

b) Overhead receptacle

Output power	200 kW during 3-4 min
Length	3 m (provide ± 1 m tolerance at bus stop in rolling direction)

c) Plug (for backup at terminal)

Output power	50 kW
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Flash Feeding Station with Storage

a) DLC charger

Output voltage	0-500 Vdc
Input voltage	400 Vrms 50 Hz three phase
Output power	50 kW
Efficiency	95%

b) DLC bank (Supercaps; no battery)

Configuration	11 in series 7 in parallel
Average duration	15 s
Capacity	105F
Current	900 A (constant)
System ESR	9.9 mOhm
Voltage (under load)	490 V - 362 V - 15 s
Power start-end	441 kW - 326 kW
Energy DLC	1.6 kW·h

c) Overhead receptacle

Output power	400 kW during 20 s
Length	3 m (provide ± 1 m tolerance at bus stop in rolling direction)

Depot Feeding Station

Output voltage	from 330 Vdc to 500 Vdc
Input voltage	400 Vrms 50 Hz three phase
Efficiency	97.5%
Output power	50 kW
Quantity of plugs	4 (four buses are fed sequentially)