

Brochure
Temes Power Charger 15 – 40 kW



Charger – Product Versions I

Unit Name	Part Number	Main technical Data
15 / 30 kW DC Fast Charger	TEMP500013-1 Mobile Variant: TEMP500013-9	500 V DC max, CCS Combo2 and / or CHAdeMO 15 kW (loaded with 1 Power Module) 30 kW (loaded with 2 Power Modules)
15 / 30 kW DC Fast Charger	TEMP500013-2 Mobile Variant: TEMP500013-8	750 V DC max, CCS Combo2 15 kW (loaded with 1 Power Module) 30 kW (loaded with 2 Power Modules)
20 / 40 kW DC Fast Charger <u>Preferred Type!</u>	TEMP500013-3 Mobile Variant: TEMP500013-7	1000 V DC max, CCS Combo2 and / or CHAdeMO 20 kW (loaded with 1 Power Module) 40 kW (loaded with 2 Power Modules)
20 / 40 kW DC Fast Charger	TEMP500013-4 Mobile Variant: TEMP500013-6	750 V DC max, CCS Combo2 and / or CHAdeMO , 20 kW (loaded with 1 Power Module) 40 kW (loaded with 2 Power Modules)

Version: Stationary Charging Station



Wallbox Version



Mobile Version



Charger Configurations I



CCS1	CCS2	GBT	CHAdeMO
CCS1	CCS2	GBT	CHAdeMO
CCS1+CHAdeMO	CCS2+CHAdeMO	GBT+GBT	CHAdeMO+CCS1
CCS1+CCS1	CCS2+CCS2	GBT+CCS1	CHAdeMO+CCS2
CCS1+GBT	CCS2+GBT	GBT+CCS2	CHAdeMO+GBT
		GBT+CHAdeMO	

- 1 x CCS Type 2
- 2 x CCS Type 2 (Parallel operation requires 30 kW or 40 kW version)
- 1 x CHAdeMo
- 2 x CHAdeMo (Parallel operation requires 30 kW or 40 kW version)
- 1 x CCS Type 2 and 1 x CHAdeMo
(Note: This configuration does not allow parallel use of both connectors for charging. This will be prevented by the charger unit)

Technical Data & Highlights	
Continuous Charging Voltage	100 - 1000 V DC
Charging Power	15 kW, 20 kW, 30 kW, 40 kW
Mechanical Protection	IP 54, Outdoor Use
Operational Temperature	Full output power from – 25°C to 45°C; above, power derating 5% / °C
Standards	IEC 61851-1-2017, IEC 62196-1-2012, IEC 609050-1, IEC 61851-21-2 (EMC)
Efficiency	≥ 0.94 %
Power Factor	≥ 0.99
User friendly Operation	7 inch touch screen display
Multiple Charging Programs	Auto-charge, time-charge, fee-charge, energy-charge, SOC charge (Capacity charge, e.g. charging up to 80% of battery capacity)
Extensive Safety Means	Output fuses, Contactors, Emergency off Circuit, SPD (Surge Protection Device), Ground Fault Detection, Insulation Monitoring and Software Control
Other Options	OCPP (Open Charging Point Protocol); LTE wireless modem Support, RFID Authorizing and Payment; Mobile Apps

- Charging of all kind of electric vehicles (cars, buses, commercial vehicles etc.)
- private households or public
- Car/Bus OEM
- R&D Labs
- Fleet operation and charging management
- Employee charging
- Infrastructure operators, car repair shops, service stations
- Car dealer

Temes - 15 kW - 40 kW - References Buses

Date: Aug 20

Operation Site	Customer	Bus Manufacturer	Note
Portugal / Porto	Siemens	Caetanobus, MAN, CoBus	
Germany, Transport Services	Siemens	Transport Service: Wuerzburg, Schwerin, Bonn, Nuernberg	
England	Siemens	Caetano UK, Milbrook Moving Ground	
Italy	Rampini Carlo Spa	Rampini Carlo Spa	
Switzerland, Zuerich Airport	Siemens	Eurobus Schweiz	
Germany, Airports	Siemens	Airports: Munich, Frankfurt, Hamburg	
German Bus Manufacturer	Siemens	Cobus Wiesbaden, Daimler Truck AG, Scania	
Poland	Siemens	Busse Deutschland Solaris Buses	

- High Power Charger 60 kW CCS-DC, 1000 V DC max
(Part No. TEMP500013-10)
- High Power Charger 80 kW CCS-DC, 1000 V DC max
(Part No. TEMP500013-11)
- High Power Charger 150 kW CCS-DC, 1000 V DC max
(Part No. TEMP500013-12)
- High Power Charger 300 kW CCS-DC, 1000 V DC max
Phoenix Contact - WATERCOOLED
(Part No. TEMP500013-13)

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