

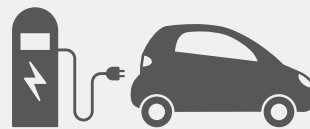


infinergi

keep charged

-  *E-Mobility*
-  *Smart*
-  *Solutions*

ELECTRIC VEHICLE CHARGING STATION_



Infinergi is the ideal solution to charge electric vehicles in a simple and safe way.

Its **advanced features** make it suitable for all different scenarios, from residential users to corporates and hospitality structures.

An easy to install **sensor enables DLM**, a smart way to regulate the charging current according to household consumption and any renewable energy produced.

Up to 8 times faster than a regular outlet



Smart charging with DLM



Integration with renewable energy



Complete control from your smartphone



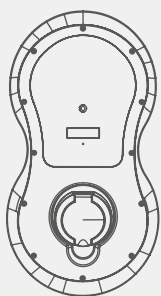
RFID authorization



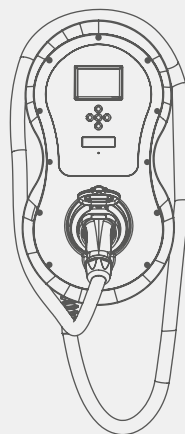
OCPP 1.6J compliant



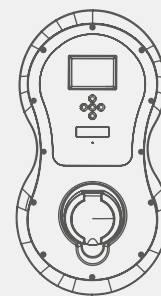
SERIES_



INFINERGI 1U
INFINERGI 3U



INFINERGI 1T-DR
INFINERGI 3T-DR



INFINERGI 1U-DR
INFINERGI 3U-DR

	1 PHASE	3 PHASE	SOCKET	CABLE	DISPLAY	RFID
INFINERGI 1U	●		●			
INFINERGI 3U		●	●			
INFINERGI 1T-DR	●			●	●	●
INFINERGI 3T-DR		●		●	●	●
INFINERGI 1U-DR	●		●		●	●
INFINERGI 3U-DR		●	●		●	●

- TECHNICAL SPECIFICATIONS -

	INFINERGI 1U	INFINERGI 3U	INFINERGI 1T DR	INFINERGI 3T DR	INFINERGI 1U DR	INFINERGI 3U DR
Output power	Up to 7.4kW	Up to 22 kW	Up to 7.4kW	Up to 22 kW	Up to 7.4kW	Up to 22 kW
Power supply	230 Vac	400 Vac	230 Vac	400 Vac	230 Vac	400 Vac
	1 ph. + N + PE	3 ph. + N + PE	1 ph. + N + PE	3 ph. + N + PE	1 ph. + N + PE	3 ph. + N + PE
Frequency	50 / 60 Hz					
Standby consumption	<2W					
Charging efficiency	>99,94%					
Earthing arrangements	TT/TN-C/TN-S/TN-CS / IT (1P+N+PE, 2P+PE, 3P+N+PE)					
Protections	DC leakage current > 6mA / Overvoltage category III (4kV) Overcurrent Earth fault (TN/TT systems) / Overtemperature / Hardware failure					
Connection type	Type 2 socket (with lock)		Type 2 cable		Type 2 socket (with lock)	
Cable length	-		5m		-	
Charging mode	Mode 3 Case B		Mode 3 Case C		Mode 3 Case B	

- MECHANICAL SPECIFICATIONS -

	INFINERGI 1U	INFINERGI 3U	INFINERGI 1T DR	INFINERGI 3T DR	INFINERGI 1U DR	INFINERGI 3U DR
Installation	Indoor and outdoor Wall or pedestal (optional)					
Material	Shell: Polycarbonates (RAL 9006) Front panel: Polycarbonates (RAL 7035)					
Dimensions (WxHxP)	266 x 498 x 158 mm					
Weight	4 kg		5 kg	6 kg		4 kg
Cooling system	Fanless cooling					

- OPERATIVE CONDITIONS -

	INFINERGI 1U	INFINERGI 3U	INFINERGI 1T DR	INFINERGI 3T DR	INFINERGI 1U DR	INFINERGI 3U DR
Protection grade	IP55, IK08					
Temperature	-25°C to +50°C (without power limitation)					
Humidity	0% to 95%					

- REGULATORY COMPLIANCE -

	INFINERGI 1U	INFINERGI 3U	INFINERGI 1T DR	INFINERGI 3T DR	INFINERGI 1U DR	INFINERGI 3U DR
IEC 61851-1	x					
IEC 62196-2	x					
IEC 61439-7	x					
IEC 62955	x					
EV-ready 1.4G	x					
CE	2014/30/EU (EMC) - 2014/35/EU (LVD) - 2014/53/EU (RED) - 2011/65/EU (RoHS)					
CB	IEC 61851-1:2017 (DEKRA), IEC 61439-7:2018 (DEKRA)					

- CHARGING -						
	INFINERGI 1U	INFINERGI 3U	INFINERGI 1T DR	INFINERGI 3T DR	INFINERGI 1U DR	INFINERGI 3U DR
Mode	Fast / Green / Programmed / Remote					
Green energy management	x ¹					
Wired DLM	x ¹					
Wireless DLM	-		x ¹			
Energy measurement	Embedded power meter		Embedded power meter or external Modbus meter			
Authorization to charge	Free to charge / App		Free to charge / PIN code / RFID / App			
OCPP	-		1.6J			
Clustering mode	-		x ¹			

- CONNECTIVITY -						
	INFINERGI 1U	INFINERGI 3U	INFINERGI 1T DR	INFINERGI 3T DR	INFINERGI 1U DR	INFINERGI 3U DR
WiFi 802.11 b/g/n 2.4GHz	x (AP & Client)					
BLE 4.2	x					
RF 868 MHz	-		x			
GPRS (internal SIM)	-		x ¹			
RS485 ModbusRTU	-		x			

- USER INTERFACE -						
	INFINERGI 1U	INFINERGI 3U	INFINERGI 1T DR	INFINERGI 3T DR	INFINERGI 1U DR	INFINERGI 3U DR
Status indicator	RGB LED		RGB LED and 3.5" LCD display			
Buttons	1		5			
Integrated web portal	x					
Mobile application	x					

1. Available upon request

DLM_ (DYNAMIC LOAD MANAGEMENT)

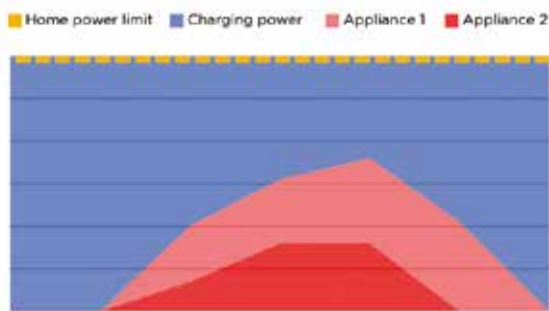
DLM makes charging faster, more efficient, and allows you not to worry about overloading your electrical system.

With DLM your home's **energy consumptions** are **continuously monitored** to adjust charging power, allowing to charge at the highest available rate without exceeding your home's power limit.

You can also take full advantage of the **green energy** generated from your renewable system (if any), making your charge **100% sustainable**.

SMART

When a lot of appliances are turned on, DLM slows your charge within your home power capacity. When they turn off, more power is redirected to your car.



ECO-SUSTAINABLE

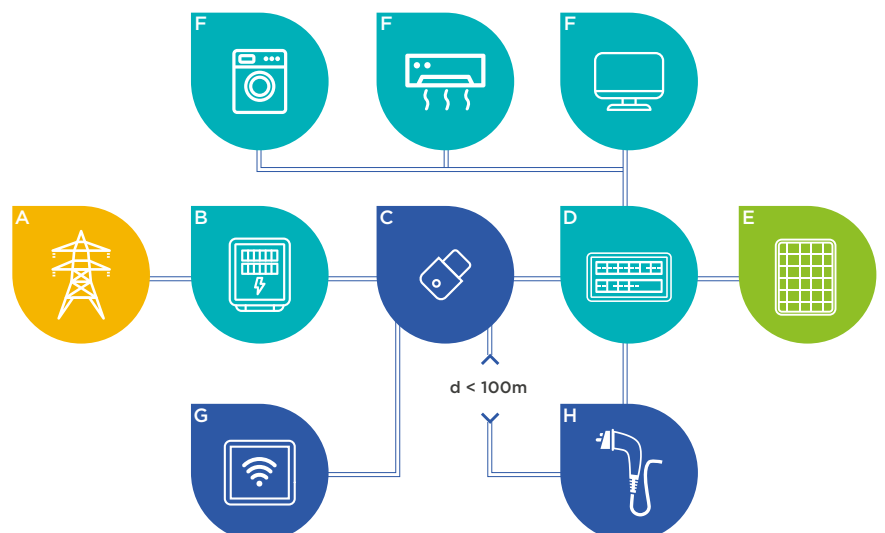
You can select how to use the green energy between two modes:

- **100% green:** DLM allows to charge your car using only green energy.
- **Grid and green mix:** DLM adjusts charging power to minimize the use of grid power by combining it with any green energy surplus available.

If you want to switch back to all grid power to complete charge more quickly, at any time you can disable green mode or manually activate an energy boost.

TYPICAL INSTALLATION_

- A. Grid
- B. Energy meter
- C. DLM sensor
- D. RCD consumer unit
- E. Green energy source
- F. Other appliances
- G. Wireless DLM device (optional)
- H. Infinergi



DESIGNED BY



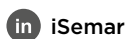
MANUFACTURED BY



SEMAR SRL UNIPERSONALE
Via Sardegna, 5
60022 Castelfidardo (AN) - ITALY
T (+39) 071 78 24 81
info@semar.biz
www.semar.com



Semar



iSemar