Smart AC EV Chargers 7.4 to 22 kW

Solplanet Nova Series



Models:
NOVA-AC7.4-Cable
NOVA-AC7.4-Cable-UK
NOVA-AC7.4-Socket
NOVA-AC7.4-Socket-UK
NOVA-AC7.4-Shutter
NOVA-AC11-Cable
NOVA-AC11-Socket
NOVA-AC22-Cable
NOVA-AC22-Socket
NOVA-AC22-Shutter

Optimal Performance

- Up to 22 kW / 32 A three-phase charging with Dynamic Load Balancing
- Solar and battery optimised charging with 3-to-1 phase switching
- Integrated MID and Eichrecht-certified meter for invoicing

Safe and reliable

- Integrated Electrical Safety: Built-in RDC-DD (DC 6mA) detection device acc. to IEC 62955
- Robust Outdoor Design - IP65 / IK10 protection and operating range from -40 °C to +55 °C
- Fast & Simple Installation - Smart backplate design and fast commissioning

Future-proof

- Future-Ready EV Communication - ISO 15118-20 support for V2H readiness
- Open Backend Integration - OCPP 1.6J & OCPP 2.0.1 for flexible integration with charging management platforms [3]
- Extensive Connectivity - Ethernet, Wi-Fi, Wi-SUN, Bluetooth, RS485, Modbus/TCP and 2 RFID cards

Technical Datasheet

		NOVA-AC7.4-Cable[1]	NOVA-AC7.4-Socket[1]	NOVA-AC7.4-Shutter	NOVA-AC11-Cable	NOVA-AC11-Socket	NOVA-AC22-Cable	NOVA-AC22-Socket	NOVA-AC22-Shutter
Input & Output	Rated voltage	230 V ac			400 V ac				
	Rated frequency	50 Hz							
	Rated output power range	1.4 - 7.4 kW			TN/TT: 1.4 kW – 11 kW [2]		TN/TT: 1.4 kW – 22 kW [2]		
	Rated output current range	6 A - 32 A (1P)			6 A - 16 A (3P)		6 A - 32 A (3P)		
	Standby power consumption	< 5 W							
	Residual current detection	RDC-DD (6 mA DC) acc. to IEC 62955							
	Connector type (IEC62196-2)	Type 2	Type 2 socket	Type 2 socket with shutter	Type 2	Type 2 socket	Type 2	Type 2 socket	Type 2 socket with shutter
	Cable length	7.5 m	-	-	7.5 m	-	7.5 m	-	-
User Interface & Control	Network interface	Wi-Fi (Wi-Fi 6, 2.4 GHz / 5 GHz), Wi-SUN, Bluetooth, RS485, Ethernet, Modbus/TCP							
	RFID/NFC reader	RFID: ISO/IEC14443 A/B, ISO15693 NFC: 18092							
	Status indication	LED Light strip							
	Start mode	Autostart / Scheduled charging / App / RFID Card							
	Communication protocol	OCPP 1.6J / 2.0.1 [3]							
Working Environment	Ingress protection	IP65							
	Operating temperature range	-40 °C ~ 55 °C							
	Storage temperature range	-40 °C ~ 85 °C							
	Relative humidity	5 % - 95 %, non-condensing							
	Altitude	Up to 2000 m							
	Cooling concept	Natural convection							
Mechanical	Impact protection class	IK10							
	UV resistant	●							
	Mounting method	Wall-mounted							
	Dimensions (W / H / D)	191 / 283 / 154 mm							
	Weight	4.2 kg (with cable)	2.4 kg	2.4 kg	4.5 kg (with cable)	2.8 kg	6.4 kg (with cable)	2.8 kg	3.6 kg
	Cable holder	●	○	○	●	○	●	○	○
Safety	DC leakage protection	●							
	Over-temperature protection	●							
	Ground protection	●							
	Surge protection (EN60664)	● (Type III)							
Certification	Certificate	MID (Class C, ±0.5%), Eichrecht, CE, CB, UKCA							
	Certificate standard	IEC/EN 61851-1, IEC/EN 61851-21-2, IEC/EN 62955, IEC 62196, EN 18031-1, REA 6A, PTB-A50.7, EN 301 908-1/13, EN 300 328/330, EN IEC 62052-11, EN 50470-3, EN 62052-31, ISO 15118-20							
	EMC	Class B							

● standard features ○ optional features - not available

1.Designated models for United Kingdom and Ireland are: NOVA-AC7.4-Cable-UK and NOVA-AC7.4-Socket-UK.

2.The rated output power range using phase switching.

3.OCPP is under development and is planned for an upcoming software update.

Release: November 2026, v 1.0.