NACS INLET 1000V

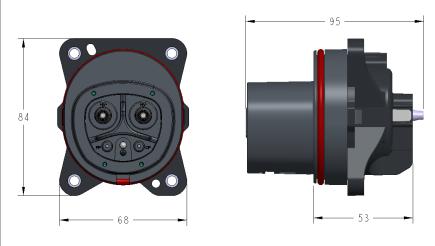
Charging Inlet for direct current (DC) and alternating current (AC) charging, compatible with NACS vehicle charging connectors (EVSE), for installation in electric vehicles for electromobility (EV).

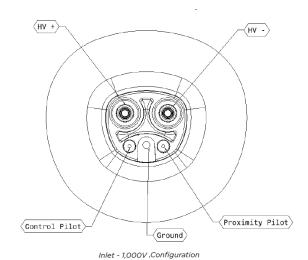




PRODUCT DEFINITION					
Product Type		Vehicle Charging Inlet			
Application		For Charging with Alternating Current (AC) and Direct Current (DC)			
		For Installation in Electric Vehicles (EV)			
		Combined Charging System			
Standards / Regulations		UL 2251			
Charging Standard		NACS TS-0023666, IEC 62196-1			
Charging Mode		Mode 2, 3, 4			
Protective Cap		A Protective Cap is Supplied as Standard for the DC and AC Contacts.			
Connection Method		S	crews Connection (cannot be disconr	nected)	
AMBIENT CONDITIONS					
Ambient Temperature (Operation)		-40°C to +60°C			
Ambient Temperature (Storage / Transport)		-40°C to +85°C			
Maximum Altitude			4000 m (above sea level)		
Degree of Protection		With the inlet mounted to a representative body panel and the connector mated to the inlet, the system shall withstand an IP44 test as described in IEC 60529.			
		When mounted to a representative vehicle body panel and unmated to the connector, the inlet shall withstand an IP67 water and dust test as described in IEC 60529.			
		When mounted to a representative vehicle body panel and unmated to the connector, the inlet shall withstand an IP6K9K water test as described in IEC 60529.			
POWER CONTACTS					
Number			3 (HV+, HV-, PE)		
Rated Voltage		The North American Charging Standard exists in 1000V rated configuration. The 1000V version is mechanically backwards compatible.			
Rated Current		The North American Charging Standard shall specify no maximum current rating. The maximum current rating of the inlet or connector shall be determined by the manufacturer, provided that the temperature limits defined in section 8 are maintained. Tesla has successfully operated the North American Charging Standard above 900A continuously with a non-liquid cooled vehicle inlet.			
ELECTRICAL PROPERTIES			DIMENSI	ONS	
Number of Phases		1	Height	84 mm	
Charging Power (Nominal Operation)	TBD		Width	68 mm	
Type of Charging Current	DC, AC 1-phase		Depth	95 mm	
Insulation Resistance	> 200 MΩ		Para Dimensions	F2 mm V 60 =====	
Coding	2.7 kΩ (between PE and PP)		Bore Dimensions	52 mm X 68 mm	

NACS INLET MECHANICAL DRAWING





1000V	Configu	ıration
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SIGNAL CONTACTS		TEMPERATURE SENSORS		
Number	2 (PP, CP)	Sensor Type		NTC Thermistor
Rated Current for Signal Contacts	2A	Nominal Resistance	and Tolerance	R25 100 KΩ ± 5.0%
Rated Voltage for Signal Contacts	30V AC	B Value and Toleran	ce	B25 / 85 4, 150K ± 3.0%
Note on the Connection Method	Crimp Connection (cannot be disconnected)	Maximum Rated Po	wer	P25 200mW
Material Contacts	Cu-Alloy	Permissive Operatir	ng Current	125 0.14mA
LV Connectors	Connectors: DELPHI 15438866, APTIV 13678638	Temperature		-40°C to +125°C

MECHANICAL PROPERTIES		DESIGN		MATERIAL	
Insertion / Withdrawal Cycles	> 10,000	Design Line	Generation 1	Material	Plastic
Insertion Force	< 90 N	Housing Colour	Black	Flammability Rating	VO
Withdrawal Force	< 90 N	Customer Variations	On Request	Material Surface of Contacts	Ag
MOUNTING					

Restrictions to Mounting Position	0° to 90° Frontal Inclination Possible
Mounting Position of the Locking Actuator	5 mm (Ø)
Mounting Hole Diameter	5 m
Required Mounting Screws	M4
Screws Included in the Scope of Delivery	None

ENVIRONMENTAL PRODUCT COMPLIANCE		
REACH SVHC	Compliant	
China RoHS	Compliant	
EU RoHS	Compliant	

Contact us at **sales@volex.com** for assistance in finding the right solution for your needs.

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