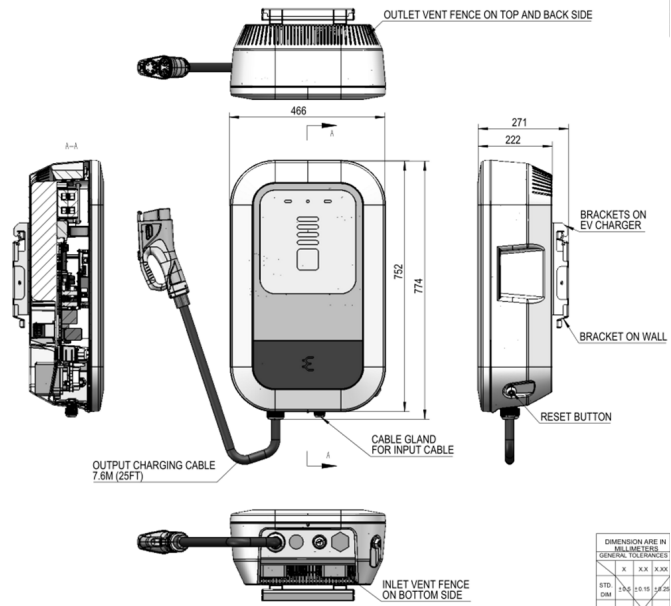




## LDF20 DC to DC EVSE



30% lower  
CAPEX costs

Simplified DC-coupled  
architecture avoids  
inverters, transformers,  
and trenching



20% lower  
OPEX costs

Up to 98% energy  
efficiency from direct  
DC charging with no AC-  
to-DC conversion losses



50% faster permitting  
& installation

Modular, surface-  
mount systems  
with fewer utility  
dependencies



Lean infrastructure,  
lower footprint

Uses thinner, fewer  
wires and up to 60%  
less copper



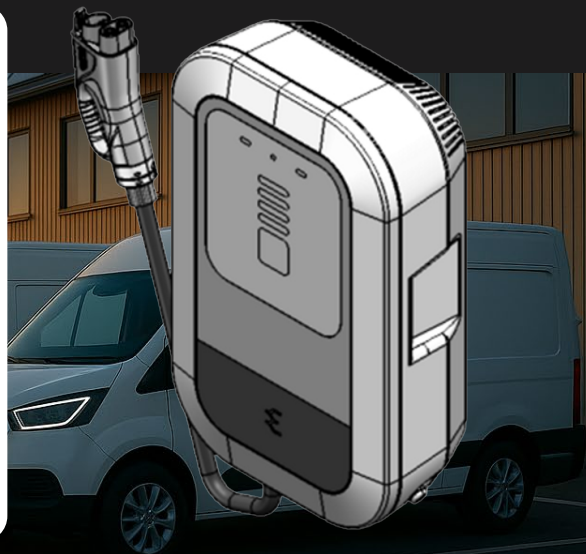
2-3X faster  
charging vs AC

20kW DC output  
bypasses onboard  
vehicle converter  
limitations

### First of its kind direct coupled 20kw DC EVSE

#### Key features:

- ✓ Faster, more efficient and reliable than AC Level 2
- ✓ 800V & 700V DC-grid connection ready
- ✓ Optimized for renewable energy integration
- ✓ Integrated with energy management systems (EMS) for dynamic load balancing



# Enteligent LDF 20 20kW DC-to-DC EVSE Specifications

Enteligent Model Number	LDF20-XXX-YYYY	
Product Number Identifiers	XXX - power input variant	YYYY - dispenser nozzle variant
ELECTRICAL	DESCRIPTION	UNITS
Maximum Rated DC Power Output to EV	20	kW
CharIN DC CSS Power Class	DC 10	
Output Voltage (to EV)	200 to 600	Voc
Input Voltage (from source)	760 to 840 @ 800 nominal – (-A1A- product # code) 640 to 760 @ 700 nominal – (-A1B- product # code)	Voc
Maximum DC Output Current	40	A
Efficiency	>97 average	%

PROTECTIONS	DESCRIPTION
Over Voltage Protection	Input & Output
Under Voltage Protection	Input Brown-Out
Over Current Protection	Input & Output
Short Circuit Protection	Output
Over Temperature Protection	Yes
Insulation Fault Detection	Yes

ENVIRONMENTAL	DESCRIPTION	UNITS
Ambient Operating Temperature	-35 to 50 -31 to 122	°C °F
Operating Relative Humidity	95 (non-condensing)	%
Cooling	Forced Air	
Operating Altitude	0 to 2,000 0 to 6,562	m ft
Enclosure Rating	IP65 NEMA 4X (indoor/outdoor)	

MECHANICAL	DESCRIPTION	UNITS
Size (width x height x depth)	466 x 752 x 222 18.3 x 29.6 x 8.7	mm inches
Weight	35.8 (39 with NACS; 40 with CCS-1 charge cable) 82 (86 with NACS; 88 with CCS-1 charge cable)	kg lb
Cable Length	7.6 25	m ft
Dispenser Nozzle	CCS-1 (IEC 62196 Type 1) – (-CCS1 product # code) NACS (SAE J3400) – (-NACS product # code)	

COMPLIANCE	DESCRIPTION
Safety	UL 2202, UL 2231-1 & -2, UL 1998
EMC	FCC Part 15 Class A
Standards	ISO 15118-2, ISO 15118-20, OCPP 1.6, OCPP 2.0.1, DIN 70121
DC-ecosystem Rules Compliance	CurrentOS ( -A1B- product # only)

MISCELLANEOUS	DESCRIPTION
External Reset Button	Yes
Communication Interfaces	Ethernet (100 MB) RS-485 (Modbus), CAN bus Optional WiFi, BLE or cellular data

\*Tesla models may require CCS-retrofit (production prior to October 2020) \*Check your VIN at <https://shop.tesla.com/product/ccs-combo-1-adapter>