eFit96-141

Electric Drive

Parameter	Value and condition
Integrated Electric Motor & Inverter	
Power (rated S1 – max S2-120s – peak S2-2s):	31 – 31 – TBD kW
Torque (rated – max – peak):	81 – 114 – TBD Nm
Current (rated – max – peak):	270– 273– TBD Arms
Voltage (nominal – range):	96 – (72-118) V
Combined efficiency:	92%
Protection degree:	IP67
Cooling:	liquid
Operating temperature range:	-45 °C, +85 °C
Electric Motor	
Type:	Synchronous with Internal Perm. Magnet
Speed:	up to 7500 rpm
Encoder:	Sin/Cos
Inverter	
Protection:	over-current, -voltage, -temp.
Communication:	insulated CAN 2.0
Active discharge (<50 V):	<2 s
On-board diagnostics:	UDS – OBD2

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Battery Pack

Parameter	Value and condition
Base cell:	prismatic, 58 Ah, 3.7 V, ternary NMC
Cell assembly:	2p28s
Voltage (nominal – range):	102.2 – (84-118) V
Nominal capacity:	11.7 kWh
Discharge current (limited):	236 (300) A
Charge current (limited):	23 (106) A
Protection degree:	IP67

Solar Panel & MPPT

Parameter	Value and condition
Base solar cell (Efficiency):	Maxeon IBC (24.5%)
Cell assembly:	Solbianflex 6x10 matrix
Panel voltage nominal (range):	36 V (12-60 V)
MPPT voltage output (nominal):	96 V
MPPT current (max):	10 A
Battery DC voltage range:	80-120 V
Communication:	CAN, serial

Physical Characteristics

NMC12 pack dimensions	795.47 x 706 x 156.30 mm (envelope)
NMC12 pack weight	80 kg
Installed kit dimensions	Vehicle-specific; distributed components
Installed kit weight	Configuration-dependent

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Powertrain Control Unit (PCU)

Parameter	Value and condition
Voltage supply range:	8-36 V
Main processor:	Infineon Aurix TC367 (2 TriCore 300 MHz, 4 MB flash)
Communication:	3 CAN 2.0/FD, 4 SENT, 1 Ethernet 100-T1
General purpose I/O:	16 analog/digital input, 16 low/high side (with currrent Sens.), 8 PWM
Connector:	64-ways CM
Compliance:	ISO26262 (Asil-D)
Protection degree:	IP67
Additional:	internal 6-axis accelerometer/gyroscope, absolute barometer

Power Distribution Unit

Parameter	Value and condition
High voltage system distribution	
High voltage heating system supply	
Connectors with univoque mechanical key	
DC/DC Converter:	500 W
AC/DC Converter (Battery Charger):	3 kW with standard Shuko plug 16 A, 220 V
Protection degree:	IP67

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