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SPECIFICATIONS

High Voltage Shut-off Procedure

▷ Specifications

Item	Specifications	Remarks
Inverter Capacitor Discharge Status	30V or Below	It can be checked with a multi tester.

High Voltage Battery Handling Guide

▷ Specifications

Item	Specifications	Remarks
Resistance on the Service Plug Cable Side (Ω)	1 or under (20°C)	It can be checked with a multi tester.
Main Fuse Resistance (Ω)	1 or under (20°C)	It can be checked with a multi tester.
High Voltage Main Relay Welding Condition	NO	It can be checked via KDS.
High Voltage Main Relay Welding Condition	$\infty\Omega$ (20°C)	It can be checked with a multi tester.
Insulation Resistance ($k\Omega$)	300 - 1000	It can be checked via KDS.
Insulation Resistance ($M\Omega$) [Actual Measurement]	2 or more	Megaohm Tester
High Voltage Abnormal Voltage Inspection (V) [Measurement Range : Modules # 1 to 5]	120 - 207	It can be checked with a multi tester.
High Voltage Abnormal Voltage Inspection (V) [Measurement Range : Combined value of the modules # 1 to 5]	Extended type 240 - 412	It can be checked with a multi tester.

High Voltage Battery System

▷ Extended type

Item	Specifications	Remarks
Cell Configuration	98	-
Rated Voltage (V)	352.8 (240 - 412.8)	
Nominal Capacity (Ah)	180	-
Energy (kWh)	64	-
Weight (kg)	445	-
Cooling system	Water Cooled	Forced Cooling of the Cooling Motor

Item	Specifications	Remarks
SOC (%)	5 - 95	It can be checked via KDS.
Cell Voltage (V)	2.5 - 4.3	It can be checked via KDS.
Pack Voltage (V)	240 - 412.8	It can be checked via KDS.
Voltage Deviation between Cells (mV)	40 or Below	It can be checked via KDS.
Insulation Resistance ($k\Omega$)	300 - 1000	It can be checked via KDS.
Insulation Resistance ($M\Omega$) [Actual Measurement]	2 or more	Megaohm Tester

High Voltage Battery Control System

BMS ECU

▷ Specifications

Item	Specifications	Remarks
C-CAN Terminating Resistance (Ω)	Approx. 60	Refers to the combined resistance (BMS ECU ↔ Inverter)
C-CAN Terminating Resistance (Ω)	Approx. 120	It refers to the resistance value of a BMS ECU unit.

Main Relay

▷ Specifications

Item		Specifications
In Contact	Rated Voltage (V)	450
	Rated Current (A)	150A
	Static Pressure Drop (V)	0.15 or under (200A)
Coil	Operation Voltage (V)	12
	Resistance (Ω)	30.6 - 37.4 (20°C)

Item	Specifications	Remarks
High Voltage Main Relay Welding Condition	NO	It can be checked via KDS.

High Voltage Main Relay (-) Switch Resistance (Ω)	∞	It can be checked with a multi tester.
High Voltage Main Relay Operation Noise	"Tick," "Tok"	It can be checked via KDS.
High Voltage Main Relay Coil Resistance (Ω)	21.6 - 26.4 (20°C)	It can be checked with a multi tester.

Pre-charge Relay

▷ Specifications

Item		Specifications
In Contact	Rated Voltage (V)	450
	Rated Current (A)	10
	Voltage Drop (V)	0.5 or under (10A)
Coil	Operation Voltage (V)	12
	Resistance (Ω)	92.7 - 113.3 (20°C)

Item	Specifications	Remarks
High Voltage Main Relay (-) Switch Resistance (Ω)	∞	It can be checked with a multi tester.
Pre-charge Relay Operation Noise	"Tick," "Tok"	It can be checked via KDS.
Pre-charge Relay Coil Resistance (Ω)	54 - 66 (20°C)	It can be checked with a multi tester.

Pre-Charge Resistor

▷ Specifications

Item		Specifications
Coil	Rated Capacity (W)	60
	Resistance (Ω)	40

Battery Current Sensor

▷ Specifications

Current (A)	Output Voltage (V)
-500 (Charging)	0.5
-250 (Charging)	1.5
0	2.5
250 (Discharged)	3.5
500 (Discharged)	4.5

Low Current (A)	Output Voltage (V)
-50	0.5
-25	1.5
0	2.5
25	3.5
50	4.5

Item	Specifications	Remarks
Current Sensor Output Terminal Voltage (V)	Approx. 2.5 ± 0.1	It can be checked with a multi tester.
Current Sensor Power Terminal Voltage (V)	Approx. 5 ± 0.1	It can be checked with a multi tester.

Main Fuse

▷ Specifications

Item	Specifications
Rated Voltage (V)	450 (DC)
Rated Current (A)	400 (DC)

Item	Specifications	Remarks
Main Fuse Resistance (Ω)	1 or under (20°C)	It can be checked with a multi tester.

Battery Temperature Sensor

▷ Specifications

Temperature (°C)	Resistance Value (k Ω)	Deviation (%)
-40	158.6	-2.7 - +2.8
-30	90.09	-2.7 - +2.8
-20	53.21	-2.7 - +2.8
-10	32.56	-2.7 - +2.8
0	25.78	-2.7 - +2.8

10	13.39	-2.6 - +2.7
20	8.95	-2.6 - +2.7
30	6.1	-2.5 - +2.6
40	4.2	-2.5 - +2.6
50	3.06	-2.4 - +2.5
60	3.011	±2.4
70	1.64	-2.3 - +2.4

High Voltage Battery Heater Relay

▷ Specifications

Item		Specifications
In Contact	Rated Voltage (V)	450
	Rated Current (A)	10
	Static Pressure Drop (V)	0.5 or under (10A)
Coil	Operation Voltage (V)	12
	Resistance (Ω)	54 - 66 (20°C)

Item	Specifications	Remarks
High Voltage Battery Heater Relay Switch Resistance (Ω)	∞	It can be checked with a multi tester.
High Voltage Battery Heater Relay Operation Noise	"Tick," "Tok"	It can be checked via KDS.
High Voltage Battery Heater Relay Coil Resistance (Ω)	54 - 66 (20°C)	It can be checked with a multi tester.

High Voltage Battery Heater Fuse

▷ Specifications

Item	Specifications
Current (A)	10

High Voltage Charging System

On-Board Charger (OBC)

▷ Specifications

Item	Specification
Maximum Power Output (kW)	7.2
Power Density (kVA/l)	0.57
Size (mm)	327 X 367 X 105
ICCB (kW)	Approx. 1.4
EVSE (kW)	6.6

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