

# INSTER.

## Specifications.



Hyundai INSTER		
Electric Motor	42 kWh Electric Motor	49 kWh Electric Motor
Motor type	Permanent Magnet Synchronous Motor (PMSM)	Permanent Magnet Synchronous Motor (PMSM)
Configuration	Front mounted driving front wheels	Front mounted driving front wheels
Maximum power	71.1 kW	84.5 kW
Maximum torque	147 Nm	147 Nm
High Voltage Battery	42 kWh Electric Motor	49 kWh Electric Motor
Battery type	Lithium-Ion	Lithium-Ion
Capacity	42 kWh	49 kWh
Output	85.4 kW	96.5 kW
Voltage	266 V	310 V
Cooling system	42 kWh Electric Motor	49 kWh Electric Motor
Active Air Flap (AAF) - air intake shutters	•	•
On-board AC charger	42 kWh Electric Motor	49 kWh Electric Motor
Charging capacity	10.5 kW	10.5 kW
Standard charging time - 240 V (10% to 100%)	4 Hours	4 Hours 35 Minutes
Charging port	Type 2 (IEC 62196-2 Type 2)	Type 2 (IEC 62196-2 Type 2)
On-board DC fast charger	42 kWh Electric Motor	49 kWh Electric Motor
Charging capacity	120 kW	120 kW
50 kW fast charging time (10% to 80%)	58 Minutes	58 Minutes
120 kW fast charging time (10% to 80%)	30 Minutes	30 Minutes
Charging port	CCS Combo2 (IEC 62196-3 Configuration FF)	CCS Combo2 (IEC 62196-3 Configuration FF)
Portable emergency charging cable	42 kWh Electric Motor	49 kWh Electric Motor
Type	In-cable control box (ICCB) with domestic 3-pin plug input	In-cable control box (ICCB) with domestic 3-pin plug input
Output capacity (maximum)	230 V, 10 A	230 V, 10 A
Standard charging time (230 V at maximum charging capacity - 10% to 100%)	About 17 hours 45 Minutes	About 20 Hours 40 Minutes
Charging plug	Type 2 (IEC 62196-2 Type 2)	Type 2 (IEC 62196-2 Type 2)
Vehicle To Load (V2L)	42 kWh Electric Motor	49 kWh Electric Motor
Output capacity (maximum)	250 V, 3.6 kW, 16 A	250 V, 3.6 kW, 16 A
Connector - inside	Domestic 3-pin plug output	Domestic 3-pin plug output

Hyundai INSTER			
Transmission	42 kWh Electric Motor		49 kWh Electric Motor
Reduction gear	Single Speed Reduction Gear		Single Speed Reduction Gear
Gear ratio			
Reduction gear	11.837		11.837
Driveline	42 kWh Electric Motor		49 kWh Electric Motor
Two Wheel Drive (2WD) - front wheel drive	•		•
Steering	42 kWh Electric Motor		49 kWh Electric Motor
Type	Column mounted Motor Driven Power Steering (C-MDPS)		Column mounted Motor Driven Power Steering (C-MDPS)
Minimum turning circle diameter between kerbs / walls	10.6 m		10.6 m
Number of steering wheel turns lock to lock	2.58		2.58
Suspension	42 kWh Electric Motor		49 kWh Electric Motor
Front	MacPherson strut		MacPherson strut
Rear	CTBA		CTBA
Brakes	42 kWh Electric Motor		49 kWh Electric Motor
Booster	Active hydraulic booster (regenerative braking)		Active hydraulic booster (regenerative braking)
Front brake type	Ventilated Disc		Ventilated Disc
Front disc dimensions	280 mm x 22 mm		280 mm x 22 mm
Rear brake type	Solid Disc		Solid Disc
Rear disc dimensions	262 mm x 10 mm		262 mm x 10 mm
Weight	42 kWh Electric Motor		49 kWh Electric Motor
Kerb weight - lightest	1,305 kg		1,335 kg 1,410kg (Roof Basket)
Kerb weight - heaviest	1,393 kg		1,423 kg 1410kg (Roof Basket)
Gross Vehicle Mass (GVM)	1,730 kg		1,745 kg 1,790kg (Roof Basket)
Permissible Axle Weight (PAW) - front	980kg		980kg 995kg (Roof Basket)
Permissible Axle Weight (PAW) - rear	920 kg		
Roof rack load limit	100 kg		
Towing capacity	42 kWh Electric Motor		49 kWh Electric Motor
Braked	-		
Unbraked	-		
Maximum tow ball weight	-		
Powertrain availability	42 kWh Electric Motor		49 kWh Electric Motor
Variant			
INSTER	•		•
INSTER Cross	-		•
Energy consumption*	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Wheel size			
Electric driving efficiency; Combined:			
kWh/100km	14.3	15.1	15.1 (Sunroof) 18.8 (Roof Basket)
All Electric Range (AER)	327km	360 km	360km (Sunroof) 293km (Roof Basket)

\*Figure based on WLTP (Worldwide Harmonised Light-Duty Vehicles Test Procedure) static laboratory combined average city and highway cycle test, which measure, energy consumption, range and emissions in passenger vehicles, designed to provide figures closer to real-world driving behaviour. Real life driving results will vary depending on a combination of driving style, type of journey, vehicle configuration, battery age and condition, use of vehicle features (such as heating and air conditioning), as well as operating, environmental and climate conditions.

Hyundai INSTER			
Dimensions	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Exterior			
Length	3,825 mm	3,825 mm	3,845 mm
Width	1,610 mm	1,610 mm	1,610 mm
Height (inc. roof rails)	1,610 mm	1,610 mm	1,610 mm
Wheelbase	2,580 mm	2,580 mm	2,580 mm
Wheel track - front / rear	1,414 mm / 1,425 mm	1,402 mm / 1,413 mm	1,402 mm / 1,413 mm
Ground clearance	144 mm	144 mm	144 mm
Interior			
Head room - front / rear	1,028mm / 982 mm	1,028mm / 982 mm	987 mm / 982 mm (Sunroof) 1,028mm / 982 mm (Roof Basket)
Leg room - front / rear	1,050 mm / 885 mm	1,050 mm / 885 mm	1,050 mm / 885 mm
Shoulder room - front / rear	1,290 mm / 1,260 mm	1,290 mm / 1,260 mm	1,290 mm / 1,260 mm
Hip room - front / rear	1,275 mm / 1,228 mm	1,275 mm / 1,228 mm	1,275 mm / 1,228 mm
Cargo area rear - VDA (minimum / maximum)	280 L / 1,059 L	280 L / 1,059 L	280 L / 1,059 L
Wheels & tyres	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Wheel size	15"	17"	17"
Wheel type	Alloy	Alloy	Alloy
Wheel dimensions	5.5J x 15 +41	6.5J x 17 + 47	6.5J x 17 + 47
Tyre dimensions	185/65 R15	205/45 R17	205/45 R17
Spare wheel type	Tyre Mobility Kit (TMK)		
Electric vehicle functions	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Battery heating system - optimises cold climate charging time and energy consumption	•	•	•
Battery conditioning system - controls the battery temperature to enhance fast charging performance	•	•	•
Charging cable locking function - set the locking mode for a connected charging cable	•	•	•
Charging current function - set the defined battery charging current limit for AC charging	•	•	•
Charging limit function - set the defined battery charging limit for AC/DC charging	•	•	•
Driver only climate control fan function - decreases energy consumption	•	•	•
Eco mode climate control function - decreases energy consumption by reducing heating/cooling power of climate control	•	•	•
Navigation POI - EV charging stations; with auto display based on remaining battery %, including:	•	•	•
Real-time charger status information, powered by Bluelink®	•	•	•
Next departure function - set the intended departure time for the scheduled charging, including:	•	•	•
Target temperature function - set the intended climate control temperature for next departure	•	•	•
Regenerative braking control - via paddle shifters	•	•	•
Scheduled charging function - set the intended start and end time for charging; Off-peak tariffs prioritised/Off-peak tariffs only	•	•	•
Utility mode function - uses the high voltage battery to power vehicle electronics, including:	•	•	•
Minimise interior lights function - minimises the brightness of the interior display and lights	•	•	•
Vehicle to Load (V2L) connection (inside) - domestic 3-pin plug output	•	•	•
Voice notification of charging status (outside) - using external VESS speaker	•	•	•

Hyundai INSTER			
Active safety	INSTER	INSTER EXT RANGE	INSTER CROSS
Electronic Stability Control (ESC) including;			
Anti-lock Braking System (ABS)	•	•	•
Brake Assist System (BAS)	•	•	•
Hill-start Assist Control (HAC)	•	•	•
Multi Collision-Avoidance Brake (MCB)	•	•	•
Traction Control System (TCS)	•	•	•
Vehicle Stability Management (VSM)	•	•	•
Hyundai SmartSense™ including;			
Blind-Spot Collision Avoidance-Assist (BCA)	•	•	•
Blind-Spot View Monitor (BVM)	-	-	•
Driver Attention Warning (DAW), including;	•	•	•
Leading Vehicle Departure Alert	•	•	•
Forward Attention Warning (FAW) - in-cabin camera	•	•	•
Forward Collision-Avoidance Assist (FCA 1.5) including:	•	•	•
Car / Powered two-wheeler / Pedestrian / Cyclist detection	•	•	•
Direct Oncoming function (FCA - DO)	•	•	•
Lane-Change Oncoming / Side functions (FCA - LO/LS)	•	•	•
Junction Turning functions (FCA - JT)	•	•	•
High Beam Assist (HBA)	•	•	•
Highway Driving Assist	•	•	•
Intelligent Speed Limit Assist (ISLA)	•	•	•
Lane Following Assist (LFA)	•	•	•
Lane Keeping Assist - Line/Road-Edge (LKA-L/R)	•	•	•
Parking Collision-Avoidance Assist - Reverse (PCA-R)	-	-	•
Rear Cross-Traffic Collision-Avoidance Assist (RCCA)	•	•	•
In Cabin Camera (ICC)	•	•	•
Rear Occupant Alert (ROA) - logic type	•	•	•
Safe Exit Warning (SEW)	•	•	•
Smart Cruise Control (SCC), including;	•	•	•
Stop & Go function (SCC w/ S&G)	•	•	•
Machine Learning function (SCC w/ ML) - based on Driving Style	•	•	•
Surround View Monitor (SVM) camera including;	-	-	•
3D Surround View function	-	-	•
Front view, rear view, front/rear side view	-	-	•
Top down view w/tailgate guide lines, trailer connection mode, car wash entering mode	-	-	•
Front/rear wide view function - w/ image view on command	-	-	•
Parking Distance Warning - Forward/Side/Reverse (PDW-F/S/R) function w/ dynamic guidelines & contour guidance display	-	-	•
Other features			
Emergency Stop Signal (ESS)	•	•	•
Manual Speed Limit Assist (MSLA)	•	•	•
Parking Distance Warning - Reverse (PDW-R) - 4 sensors rear with cluster guidance display	•	•	-
Parking Distance Warning - Forward/Side/Reverse (PDW-F/S/R) - 8 sensors front/side & rear/side with cluster guidance display	-	-	•
Rear View Monitor (RVM) camera including;	•	•	-
Rear wide view function - rear view image on command	•	•	-

Hyundai INSTER			
Tyre Pressure Monitoring System (TPMS) - individual tyre pressure readout	•	•	•
Virtual Engine Sound System (VESS) - external sound notification for pedestrians	•	•	•
Passive safety	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Airbags			
Front airbags - driver & front passenger	•	•	•
Front centre side airbag	•	•	•
Side (front thorax ) & curtain airbags - driver & front passenger	•	•	•
Doors			
Impact sensing auto door unlock	•	•	•
Manual child locks	•	•	•
Seatbelts			
Emergency Locking Retractors (ELR) - all seating positions	•	•	•
Pre-tensioners - all seating positions	•	•	•
Height adjustable upper mounts - front	•	•	•
Seat belt reminder - all seating positions	•	•	•
Seating			
Height adjustable head restraints - all seating positions	•	•	•
ISOFIX child restraint anchors - 2x (rear seats)	•	•	•
Top tether child restraint anchors - 2x (rear seats)	•	•	•
Security	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Security system			
Active lock/unlock operation (user configurable)	•	•	•
Anti-theft alarm	•	•	•
Central locking	•	•	•
Engine immobiliser	•	•	•
Remotes			
Smart Key remote - 2x including;	•	•	•
Emergency key blade - 2x	•	•	•
Bluelink® connected car service	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Vehicle functions			
Automatic Collision Notification (ACN)	•	•	•
Emergency Call (SOS) function	•	•	•
Connected Routing - server based navigation	•	•	•
Valet Mode function - restricted infotainment control	•	•	•
Voice Control - server based & natural voice recognition, including; vehicle controls, information, command & control	•	•	•
Calendar integration (Google, iCloud) & vehicle diagnostics	•	•	•
Weather forecast information	•	•	•
Remote functions			
Alert Services - set geo-fencing, valet, speed/time alerts and notification limits	•	•	•
Remote functions - door lock/unlock, window open/close, hazard warning lights, horn, open/close charging port, start/stop charging	•	•	•
Remote climate control - including; windscreen defog and heated rear window/side mirrors operation	•	•	•
Remote services			
Navigation - destination send to car, find my car, my trips	•	•	•
Vehicle status & notifications - remote functions successful/unsuccessful, charging status, locking status, climate control status	•	•	•

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Vehicle settings & management - scheduled charging, charging limits, energy consumption monitor, drivable distance radius, charging station search	•	•	•
Software updates			
Over The Air (OTA) navigation update capability	•	•	•
Multimedia system	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Audio/media sources			
AM radio	•	•	•
FM / Digital radio (DAB+)	•	•	•
Apple CarPlay™ <sup>1</sup> & Android Auto® <sup>2</sup> compatibility	•	•	•
Bluetooth® audio streaming	•	•	•
Sounds of Nature - Pre Set Sounds	•	•	•
USB multimedia input - inc. music - 1x (centre console)	•	•	•
Functions			
Bluetooth® Multi-Connection; 1 x phone/audio & 1 x audio	•	•	•
Bluetooth® Message Access Profile (MAP) - SMS playback capability; audio & visual	•	•	•
Capacitive touch screen - 10.25" HD display, blue light filter; including:	•	•	•
Split screen function	•	•	•
Quiet Mode function	•	•	•
Radio Data System (RDS)	•	•	•
Satellite Navigation	•	•	•
Live traffic updates (Bluelink®)	•	•	•
Voice memo function	•	•	•
Electric vehicle functions display	•	•	•
Speakers			
Audio system - 6 speakers	•	•	•
Driving convenience	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Auto Hold function	•	•	•
Electronic Parking Brake (EPB)	•	•	•
One touch turn signal - 3, 5, or 7 flashes	•	•	•
Rain sensing windscreen wipers	•	•	•
Rear wiper - 2-stage	•	•	•
Remote start - via Smart Key	•	•	•
Smart Key system with push button start	•	•	•
Steering wheel mounted controls - audio, favourite, phone, voice control, lane safety, smart cruise control, trip computer	•	•	•
Manual Tilt & telescopic steering column	•	•	•
Personalised User Profile selection - 3 custom profiles; Driver 1, Driver 2 & Guest	•	•	•
Driving engagement	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Drive Mode - 4 settings (Eco, Normal, Sport, Snow)	•	•	•
iPedal mode - intelligent one pedal driving mode	•	•	•
Paddle shifters - regenerative braking control (steering wheel mounted)	•	•	•
Shift By Wire (SBW), electronic gear shift control; steering column mounted	•	•	•
Occupant comfort & convenience	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Upholstery/trim			
Cloth seats	•	•	-
Front Centre Armrest - cloth	•	•	-
Leather <sup>3</sup> appointed seats	-	-	•

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Front Centre Armrest - Leather <sup>3</sup>	-	-	•
Leather <sup>3</sup> appointed steering wheel	•	•	•
Front seats			
Driver's Seat - height adjustable (manual)	•	•	•
Passenger's Seat - height adjustable (manual)	•	•	•
Front Seats Sliding function - 2-way manual, 50:50 split	•	•	•
Front Seats recline function : 2-way manual, 50:50 split	•	•	•
Flat Folding Front Seats Adjustment: 50:50 split	-	-	•
12V power outlet - 1x (front crashpad)	•	•	•
USB A-type power outlets - 1x (front crashpad)	•	•	•
USB C-type power outlets - 1x (front crashpad)	•	•	•
Wireless charging pad (Qi standard) <sup>4</sup> with cooling function - 1x (centre console)	•	•	•
Adjustable Armrest - Front bench seat	•	•	•
Grip handle - 1x (passenger)	•	•	•
Rear seats			
Sliding Rear Seat Adjustment : 50:50 Split	•	•	•
Flat Folding Rear Seat Adjustment: 50:50 Split	•	•	•
Grip handles - 2x	•	•	•
USB C-type power outlets - 1x (rear front bench seat)	•	•	•
Windows/shades			
Tinted windshield and front door glass	•	•	•
Tinted rear door and windscreen glass	•	•	-
Privacy Glass - Rear doors and tailgate	-	-	•
Full width glass sunroof - tilt and slide panel with manual sunshade	-	-	• / - (not available with Roof Basket Option Pack)
One touch window up & down function with anti-pinching safety feature - front	•	•	•
Convenience remote window opening/closing function with Smart Key - front	•	•	•
Sun visors - extendable with vanity mirror; driver and front passenger	•	•	•
Vision & Sight	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Interior mirror			
Day and Night Rear View Mirror	•	•	-
Electro Chromatic Mirror (ECM) - auto-dimming	-	-	•
Exterior mirrors			
Heated	•	•	•
Power adjustable	•	•	•
Power folding - with auto fold upon door lock	•	•	•
Welcome mirror function - auto unfold upon door unlock / driver approach	•	•	•
Instrument cluster/driving displays			
Instrument cluster - 10.25" colour TFT-LCD full screen digital display, including:	•	•	•
4 x gauge style; Classic A, Classic B, Classic C, Cube	•	•	•
4 x display themes; Normal, Eco, Sport, Snow	•	•	•
Ventilation & heating	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Air conditioning			
Auto control; 3-level fan (low, medium & high)	•	•	•
Driver only fan control function	•	•	•

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Auto internal air circulation function; windscreen washer	•	•	•
Auto Defog function	•	•	•
Auto Dehumidify function	•	•	•
Front seats			
Heated seats	-	-	•
Ventilated seats	-	-	•
Heated steering wheel	-	-	•
Heat pump system - high efficiency heater	•	•	•
Auto Comfort Control - auto activation of driver's heated/ventilated seat & heated steering wheel	-	-	•
Other features			
Cabin air filter	•	•	•
Heated rear window - with timer	•	•	•
PTC Heater - Electric Heater	•	•	•
Exterior styling	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Cladding - Black	•	•	•
Beltline - Black	•	•	•
Bumper - Trapezoidal semi-gloss silver garnish	•	•	-
Front lower air intake - Parametric Pixel graphics	•	•	•
Rear bumper - Parametric Pixel graphics	•	•	•
Headlights - Round Pixel Turn graphics	•	•	•
Cross			
Beltline/rear spoiler garnish trim - gloss black	-	-	•
Bumpers - Cross exclusive	-	-	•
Side skirts - Cross exclusive	-	-	•
Skid Plate - Cross exclusive	-	-	•
Mirror caps - gloss black	-	-	o <sup>5</sup>
Other features			
Roof aerial - gloss black (shark fin type)	•	•	•
Roof rails - Brushed Silver finish	•	•	•
Interior finishes	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Centre Fascia - Soft paint finish	•	•	•
Upper Door Trim Garnish - BIO Padprint	•	•	-
Upper Door Garnish - DOT Pad Print Cross exclusive	-	-	•
Leather <sup>3</sup> appointed finish - crash pad	•	•	•
Door release handles - silver finish	•	•	•
Headlining - cloth	•	•	•
Lighting	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Exterior lighting - front			
Daytime Running Lights (DRL) - LED	•	•	•
Headlight levelling device - manual type	•	•	•
Headlight lighting source - LED (low/high beam)	•	•	•
Headlight type - Dual projector beam	•	•	•
Indicator lights - LED	•	•	•
Positioning lights - LED	•	•	•
Exterior lighting - rear			
High Mount Stop Light (HMSL) - LED	•	•	•
Positioning light - LED; full width w/Parametric Pixel graphics	•	•	•



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Stop lights - LED	•	•	•
Fog lights - LED	•	•	•
Indicator lights - LED	•	•	•
Exterior lighting - side			
Indicator lights - LED; integrated into side mirrors	•	•	•
Exterior lighting - others			
Charge port light - LED	•	•	•
Interior lighting - front			
Ambient mood lighting - LED; dashboard & doors, including:	-	-	•
Adjustable colours & brightness; 10 pre-set and up to 64 colour choices	-	-	•
Front room lights and map lights - LED	•	•	•
Vanity mirror lights - LED	•	•	•
Interior lighting - rear			
Centre room light - LED	•	•	•
Interior lighting - others			
Cargo area light - LED	•	•	•
Storage solutions	INSTER STD RANGE	INSTER EXT RANGE	INSTER CROSS
Front seats			
Centre console - Storage tray	•	•	•
Cup holders - 2 x (front bench seat)	•	•	•
Dashboard tray - passenger side	•	•	•
Glovebox compartment	•	•	•
Map pockets - doors	•	•	•
Bag hook - 2 x	•	•	•
Ticket holders - sun visors; 2x	•	•	•
Rear seats			
Seat backrest - 50:50 split folding	•	•	•
Bag hook - 1 x	•	•	•
Map pockets - doors	•	•	•
Rear cargo/luggage area			
Detachable Cargo shelfcover	•	•	•
Luggage floor board	•	•	•
Others			
Roof rails	•	•	• (not available with Roof Basket Option Pack)
Roof Basket	-	-	o <sup>5</sup> (not available with Sunroof)

**Key:**

• = Feature is available on trim   o = Feature is optional on trim   - = Feature is not available on trim

**Notes:** 1. Apple CarPlay requires compatible device in order to operate. 2. Android Auto requires a compatible device in order to operate. 3. Finishes specified as leather may contain elements of genuine leather, polyurethane leather (leather substitute) or man-made materials, or a combination thereof. 4. Wireless charging requires compatible device in order to operate. 5. Feature is available on trim only as part of roof basket option pack.