

IVECO

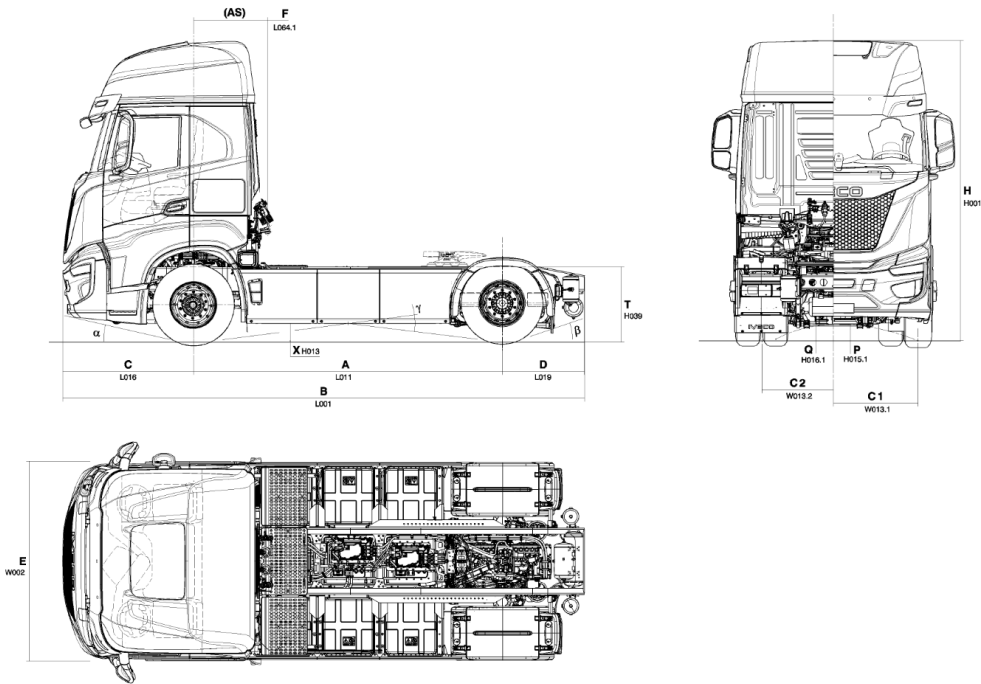
Drive the road of change



TECHNICAL DESCRIPTION

IVECO  AS440S T/FP BEV

Dimensions & Weights



	BEP	DIMENSIONS (mm)
Wheelbase (A)	L011	3932
Max length (B)	L001	6654
Distance 1st-2nd axle	L012.1	3932
Max width (E)	W002	2550
Front axle to back of cab - including cab suspensions (F)	L064.1	940
Front overhang (C)	L016	1670
Rear overhang (D)	L019	1048
Minimum ground clearance (front) (P)	H015.1	212
Minimum ground clearance (rear) (Q)	H016.1	183
Turning diameter kerb to kerb	W011	16100
Turning diameter wall to wall	W012	17700
Front track (C1)	W013.1	2055
Rear track (C2)	W013.2	1833
Side members thickness	H033/H034	7,7
Side members max height	H032	304,4
Side members flange width	W032	80
Frame width at rear	W036	851,4

Dimensions are referred to the standard tyres 315/70 R22.5.

	BEP	WEIGHTS (kg)
Wheelbase (A)	L011	3932
G.V.W. (EC)*	M002	20000
G.V.W. (Design)	M001	22000
Plated weight on front axle (EC)	M041.1	8000
Plated weight on axle I (Design)	M040.1	8000

Dimensions & Weights

	BEP	WEIGHTS (kg)
Wheelbase (A)	L011	3932
Plated weight on axle 2 (Design)	M040.2	13000
Plated weight on rear axle (EC)	M041.2	11500
G.C.W. (standard)**		44000

*Value includes additional weight allowed by COUNCIL DIRECTIVE 96/53/EC, not surpassing the technical limits of the vehicle.

** G.C.W. up to

	BEP	Dimensions for 3 batteries (mm)
Wheelbase (A)	L011	3932
Frame height at end of frame, unladen (T)	H039	957
Frame height at front axle, unladen (c+cv)	H035	958
Frame height at rear axle, unladen (d+dv)	H037	957
Overall height to top of cab, unladen (H)	H001	3836
Ground clearance below the batteries	H013	214
Approach angle α (°)	H010	12
Departure angle β (°)	H011	18
Ramp angle γ (°)	H012	14

	BEP	Weights for 3 batteries (kg)
Wheelbase (A)	L011	3932
Total vehicle kerb weight	M060	11465
Kerbweight on Front Axle	M090	6717
Kerbweight on Rear Axle	M100	4748
Max body & payload (Design)	M110	9535

Wheelbase	Type	Drawing
3932	Left hand drive vehicle drawing	5803551953

MODEL COMPONENTS

Drive mode

The S-eWay has different driving modes selections to optimize the driving style.
Through Drive mode selector positioned on lever it is possible to set the vehicle performances to:

- **ECO MODE:** focus on Range Maximization.
- **ECO - NORMAL MODE:** Diesel driving Feeling (Eco empowered)
- **ECO - NORMAL - PERFORMANCE MODE:** +10% vs Diesel

Regenerative mode

- It is possible to use the **7 Retarder lever positions** to trigger **increasing Regenerative Braking Performances**.
- Position 0 : **No Regeneration Power (Sailing Mode = Ecoroll equivalent)**
- Position 7 : **Max Regeneration Power (OnePedal drive Mode)**

Retarder lever Position	REGENERATIVE Braking Performances
Position 0	No Regenerative Braking (Sailing)
Position 1	15%
Position 2	35%
Position 3	50%
Position 4	65%
Position 5	85%
Position 6	100% with Max Regeneration (OnePedal)

HV batteries

FCS	Opt	Description	Type
MSC40	02296	603 kWh BATTERY 3 Transversal	STANDARD

Nominal capacity: 603 kWh
Usable energy: 97%
Range: up to 600 km*

* Actual range will vary based on several factors including use case, vehicle characteristics, driver behavior, and environmental conditions.

HV battery charging

Easy DC charging up to 350 kW

The charging process starts by simply activating the EPB (Electric Park Brake) and plugging the vehicle to the charging station. Depending on the charging station, it is possible that the user needs to activate it by pressing a button, swiping a card etc.

The driver will be able to customize the following charge parameters from the cluster:

- **Target State Of Charge (SOC, battery charge level in %)** – it is possible to set the SOC at which the charging process should stop. ensuring proper the Energy On-Board for the daily mission, optimizing the charging time.

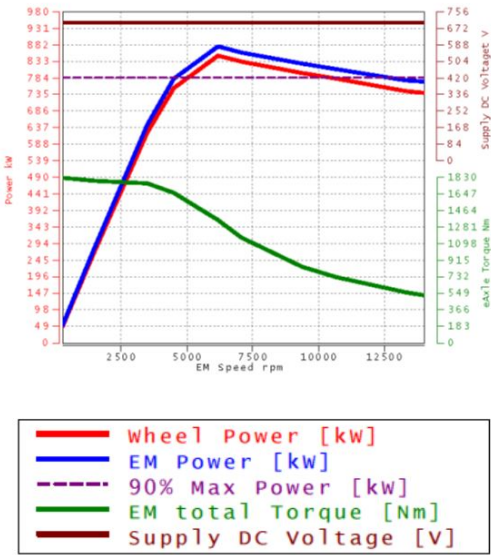
CHARGING PLUG	Plug on Driver Side, CCS type2
CHARGING TIME	Around 1h from 20% to 80% @ 350 kW DC with 3 battery packs (No MCS available)
CHARGING INFO	dedicated graphs in the Touch Screen inside the Cab



MODEL COMPONENTS

e-Motor / e-Axle

Identification Code	IRE840SIBAIB
Position	Integrated in the first/driven rear axle
Manufacturer	FPT Industrial
Commercial name	eAX 840-R
eMotor speed	14.000 rpm
eMotor Peak Power	2x 420 kW
eMotor continuous Power	2x 240 kW
eMotor Peak Torque	2x 900 Nm
eMotor continuous Torque	2x 410 Nm
Peak wheel torque	45.000 Nm
Braking Torque	30.000 Nm
DC Voltage	800 V max
N. Speed	I
System efficiency	92%
Cooling system	Liquid cooled



Tyres & Wheels

Code	Tyres	Front	Rear	Load index	Rolling circumference m
20504	Standard	315/70R22,5	315/70R22,5	156/150	3.09
20852	Optional	385/55R22,5	315/70R22,5	158/	3.09
20146	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20231	Optional	315/80R22,5	315/80R22,5	156/150	3.28
20263	Optional	355/50R22,5	315/60R22,5	154/148	2.88
20294	Optional	315/70R22,5	315/70R22,5	156/150	3.09
20867	Optional	385/65R22,5	315/80R22,5	160/157	3.28
20900	Optional	385/55R22,5	315/70R22,5	158/	3.09
20866	Optional	385/65R22,5	315/80R22,5	160/157	3.28

Rear axle ratio

FCS	OPTION CODE	DESCRIPTION
D0000	00754*	REAR AXLE RATIO 25,1

*: Standard axle ratio

MODEL COMPONENTS

Performance

* Max Speed. Calculated speed on the basis of engine rpm and axle ratios. Real speed limits must take into account the speed index of the tyres: K = 110 km / h L = 120 km / h M = 130 km / h

** Theoretically calculated values, arising from the engine torque without considering the road-friction values and the stability limits of the vehicles. When calculating with more than one tyres or more than one axle ratio, availability of each combination must be checked.

Speed and gradeability values are rounded.

A = Total Weights (solo vehicle) Kg - Max Gradeability %

B = Total Weights (vehicle+trailer) Kg - Max Gradeability %

Axle Ratio	Gear Ratio	Efficiency: RPM at 80 km/h	RPM at 90 km/h	Max gradeability (%)		Startability (%)	
				A 28t at 50km/h	B 44t at 50km/h	A 28t (peak 60sec)	B 44t (peak 60sec)
25.1	25.1	10185	11458	10.6%	6%	27.5%	18%

Axle load

FCS	Code	Description	Type
H0000	07356	LOAD 8000-13000	STANDARD
H0000	07355	PLATING FOR AXLE LOADS OF 7500-13000 KG	OPTIONAL
H0000	07566	LOADS 7500-12600	OPTIONAL
H0000	76249	LOADS 9000-13000	OPTIONAL

HV e-PTO

FCS	Code	Type	Description
E1610	01961	STANDARD	WITHOUT HV e-PTO
E1610	01962	OPTIONAL	HV e-PTO (AC 400V) - Power supply only (Refrigerated missions)

LV e-PTO

FCS	Code	Type	Description
Q1540	78389	STANDARD	WITHOUT CHASSIS POWER SUPPLY BodyBuilder

BB interfaces

FCS	Code	Type	Description
MND00	02234	STANDARD	BB J1939 COMMUNICATION PROTOCOL

Suspensions

CAB	Vehicle Set-Up	Suspension	Suspension Stroke Front	Suspension Stroke Rear
AS	ON	FP	180 mm + 120 / - 65	160 mm + 140 / - 65

Battery low voltage

Voltage V	24
No. of batteries	2
Batteries capacity V/Ah	12/170

MODEL COMPONENTS

Safety

Advanced emergency braking system (AEBS):

Automatically detects an imminent/potential forward collision and activate the vehicle braking system to decelerate the vehicle with the purpose of avoiding or mitigating a collision. The system shall react to other licensed moving vehicles and obstacles present in the front area of the vehicle and has to be active both on urban and highway areas.

Lane Departure Warning System (LDWS):

Warns the driver about an unintentional lane departure event (when the vehicle drifts out of its travel lane). The system is suppressed if either hazard lights, a turn indicator, the braking pedal or the steering wheel is active.

Alcohol Interlock Preparation (ALC):

Enhance traffic safety by preventing persons with alcohol concentrations exceeding a set limit value from driving a motor vehicle. Vehicle engine can't be started if driver's alcohol concentration is unsafe for driving. Only prefit is supplied as standard, the full device is to be ordered by mean of specific option (CCP 416).

Emergency stop signal (ESS):

Enhances traffic safety by indicating to other road users to the rear of the vehicle that a high retardation force is being applied; this warning is given by a light-signaling function.

Driver Drowsiness & Alertness Warning (DDAW):

Alerts driver when driving behavior indicates drowsiness or inattentiveness.

Intelligent Speed Assist (ISA):

Aelps recognize speed limits and alerts driver, when speed limit is exceeded.

Tyre Pressure Monitoring System (TPMS):

Alerts driver of tire pressure loss to help avoid tire blow out and avoid abnormal fuel consumption.

Reversing Detection (REV):

Helps to avoid collisions during reversing maneuvers providing rear truck image on a screen.

Blind Spot Information System (BSIS):

Helps to avoid collisions with Vulnerable Road User near the passenger side while vehicle is turning.As extra-option a BSIS covering the driver side area of the vehicle is available.

Moving Off Information System (MOIS):

During moving off maneuvers it reduces the number of accidents with Vulnerable Road User entering the front area of the vehicle.

Cabin



Exteriors

New front grille

Blue line design for Electric vehicles

Mirrorless camera

Class II and IV (lateral mirrors)

Improve the aerodynamic with important benefit on energy saving

Cab design to optimize the aerodynamics

Elongated nose cab to allow > 16,5m Truck+Semitrailer overall combination

Bumper design

Multi-pieces bumper to easy repair damages

Fog lights integrated in the headlamps with a blue line identifying the Electric family.

Interiors

Brand new dashboard

New design that enhances the livability limiting the intrusiveness of the dashboard

Build around the driver and the passenger.

Improved command reachability

MODEL COMPONENTS

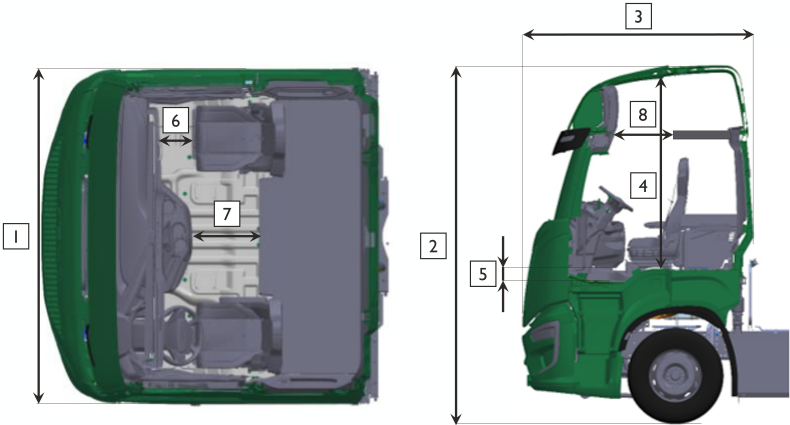
Improved front visibility
Plenty of storage compartments
New Full TFT cluster (10")
New Infotainment 10"
12 V, 24 V, USB-B and USB-C charging sockets
Electric parking brake.

New steering wheel

450 mm diameter with driver airbag
New commands in front and behind the steering wheel to avoid the driver to lose attention searching for commands around the dashboard
Regenerative braking mode from lever by the steering wheel
New driver airbag to further improve safety onboard.

New connectivity

Smart Routing navigation system energy saving oriented through Predictive Energy Management and Predictive Traffic Event Drive
Professional safety report Driver health monitoring
Evolution of driver assistant (Alexa) that is fully integrated in the dashboard and providing real-time information
IVECO ON portal as unique customer touchpoint for Iveco services



		1	2	3	4	5	6	7	8	
CAB	Roof	Width (mm)	Overall height (mm)	Length (mm)	Floor to roof Cab center (mm)	Tunnel height (mm)	Passenger usable space (mm)	Lower usable space (mm)	Upper usable space (mm)	Bunks
AS	High	2.500	Check 2D drawings	2.508	2.150	95	430	500	785	1 or 2
	Low				1.700				-	1

Cluster and infotainment HMI

Cluster view MY24 carry over functionalities and specific Electric contents (HV Battery Management; Power Flow; ePTO Management; HV Battery Settings; DC Charging Management)
IHP: MY24 carry over functionalities and specific Electric contents (Smart Routing; HV Battery Management; Power Flow; ePTO Management; HV Battery Settings; DC Charging Management)

Iveco services

Telematics Features

- Smart routing: navigation and precise range estimation based on AI and the continuous data exchange with the vehicle and the environment. It includes also protection of energy required for the ePTO.
- eRemote Control to remotely control driving modes, doors status and cabin temperature.
- Uptime Services based on Proactive diagnosis and Predictive Diagnosis: the customer is informed if the vehicle needs repair and we provide assistance in this process, with the specific aim to intercept any failure before it comes to a breakdown and minimize the downtime.
- IVECO ON Customer Portal provide visibility on vehicle status and position: the customer is informed from vehicles dashboards, alerts centre and can supervise the remote control
- Remote Assistance Services: the driver can execute any software updates while the vehicle is parked in a safe place
- The electric Driving Style Evaluation enables the Professional Safe Report and the Professional eReport: the customer is supported in the best, more safe and more sustainable use of the vehicle.

MODEL COMPONENTS

- Driver Pal: AI voice based Driver Assistant.
- API to third parties: Cloud-to cloud exposition of telematic data to customer systems.



Drive the road of change

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