E-DIAG CHARGER

Recharge and diagnosis, anywhere in your workshop

TEXA

E-DIAG CHARGER

It is an advanced **recharge and diagnosis** mobile device, which meets the current needs of workshops and allows facing better any issue related to the **maintenance and management of electric and hybrid vehicles, plug-ins included**.

It allows recharging in both direct and alternating current (DC and AC up to 800 V), so vehicle repairers can try the two types of vehicle power supply effectively. It is available in **three power variants: 22 kW, 30 kW** or **60 kW**.

Its innovative diagnostic functionality is very important. It **allows checking the state of health of the battery** and of the systems involved in the charging process, thanks to the **NAVIGATOR NANO SERVICE diagnostic module**, provided as a standard. Moreover, workshops can obtain another document related to the battery state of health through a certificate that can be requested with a simple click directly on the tool. This service will be particularly useful for customers who require it.

It is a reliable and versatile solution that easily adapts to different operating situations and is able to adjust the charging power automatically based on the capacity provided by the workshop's electrical system.

E-DIAG CHARGER can also be equipped with the **Smart Battery Charger Unit** module, capable of managing the recharge, maintaining and diagnosing 12 and 24 V batteries.

CERTIFIED

Certified in accordance with the following regulations:

IEC 61851-1
IEC 61851-23
EN 62311
IEC 61851-21-2
EN 300 328
EN 301 489-1
EN 301 489-17

10” touchscreen display
industrial

VCI NAVIGATOR NANO SERVICE included
for vehicle diagnosis

Smart Battery Charger Unit 12-24V
Optional

Windows operating system

Multifunction LEDs
High visibility

AC charging cable (3 m)
Type 2

Emergency stop
button

DC charging cable (3 m)
CCS 2 Combo

Power cable (8 m) with 32 A, 63 A, 125 A mobile plug
based on the station’s power variant

Recharge report
Printable

BATTERY STATE OF HEALTH
Standard report
Accredited certificate

3 power variants
22 kW
30 kW
60 kW

Steel body
67x112x74 cm
Weight
110-150kg
based on the power

Off-road rear wheels
and front soft wheels

Wi-Fi and Bluetooth connection

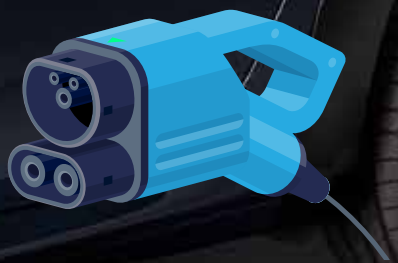
E-DIAG CHARGER includes many functions:

1. **Recharge** of the battery in BEVs, PHEVs up to 800 V
2. **Battery electronic system serial diagnosis**
3. **Battery charging system serial diagnosis**
4. **Recharge and diagnosis of 12 and 24 V batteries**
5. **Special Functions**
6. **Traction battery state of health check and certification**

Recharge

E-DIAG CHARGER allows recharging batteries in Battery Electric Vehicles **(BEV)** and Plug-in Hybrid Electric Vehicles **(PHEV)**, with the possibility to recharge both in **AC via Type 2 connector** and in Direct Current **(DC) via CCS2 Combo connector**.

AC **TYPE 2**



DC **CCS2 COMBO**

The available power, based on the model, of **22 kW**, **30 kW** or **60 kW**, allows managing the recharging process quickly, thus optimising action times in the workshop. These powers require the use of power cables with a mobile plug, respectively **32 A**, **63 A** or **125 A**.

The recharge measure, both in AC and in DC, is **MID (Measuring Instruments Directive)** certified based on the Directive 2014/32/EU, which certifies the measuring tools and protects vehicle repairers and customers.

Moreover, at the end of the recharge, the customers also receive another **certificate* related to the battery state of health**.
It is a particularly useful service for car drivers as it returns precise and reliable data on the residual capacity of the vehicle's battery.

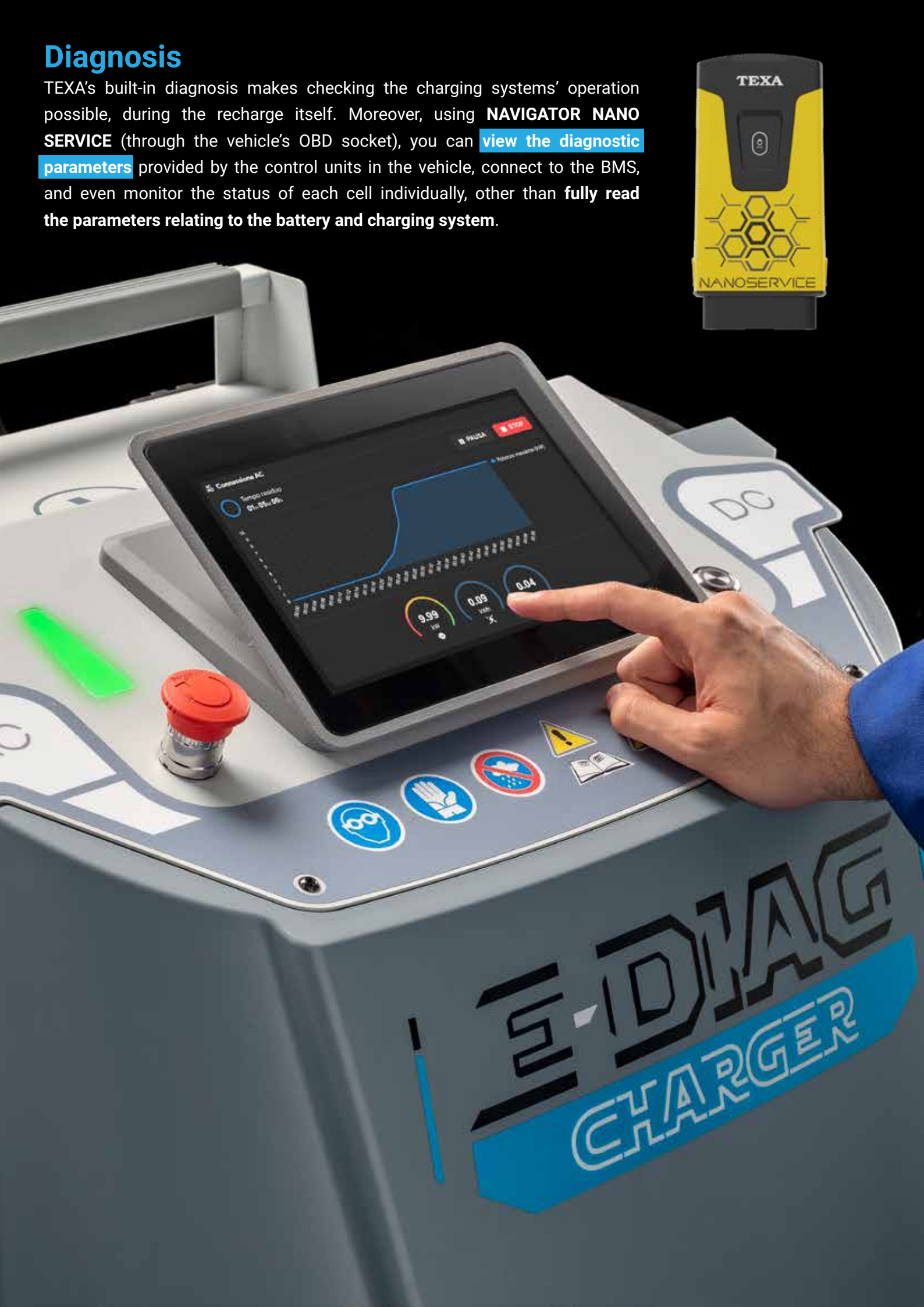
*Certificate generated by an accredited third party.

Special Functions

Each time E-DIAG CHARGER is started, it performs an **internal self-diagnosis** so to guarantee proper operation from an electrical safety point of view.
Furthermore, using a specific TEXA accessory kit (that will be provided to run new PTIs), you can check the **insulation** and **electrical continuity** of the vehicle you are working on.

Diagnosis

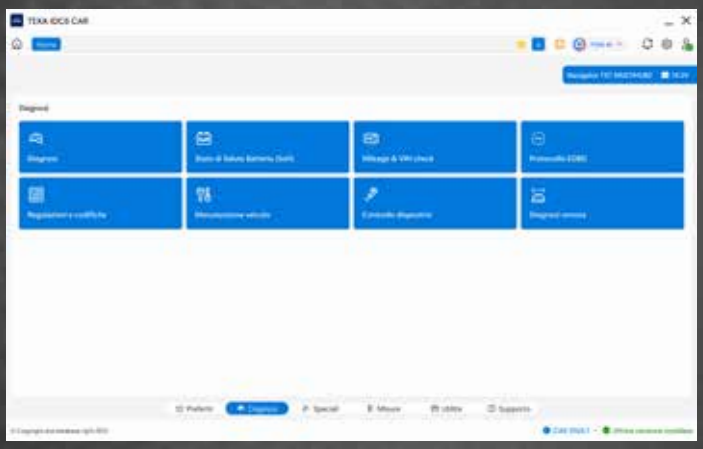
TEXA's built-in diagnosis makes checking the charging systems' operation possible, during the recharge itself. Moreover, using **NAVIGATOR NANO SERVICE** (through the vehicle's OBD socket), you can **view the diagnostic parameters** provided by the control units in the vehicle, connect to the BMS, and even monitor the status of each cell individually, other than **fully read the parameters relating to the battery and charging system**.



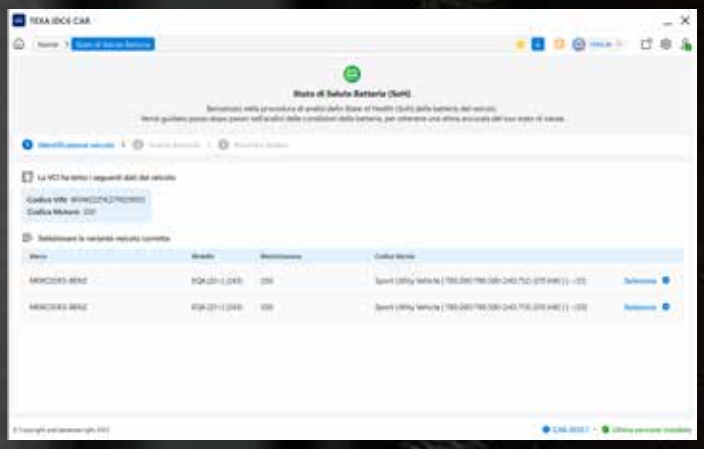
Battery State of Health (SoH)

In the field of electric and hybrid vehicles it is increasingly important, from the point of view of both mechanics and car drivers, to precisely evaluate the state of health of the traction battery and the duration of the main components on board the vehicle.

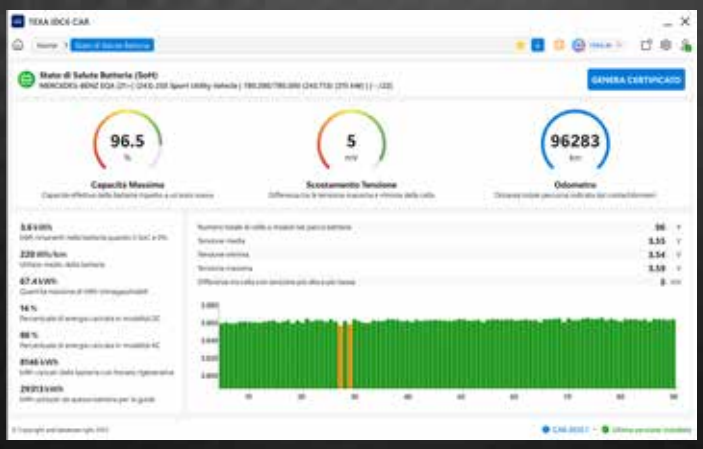
In this sense TEXA developed a process that returns an accurate percentage valuation of the battery 's State of Health (SoH), through the parameters obtained directly from the control units and processed in cloud. This procedure is a standard in E-DIAG CHARGER. Furthermore, mechanics who want to offer their customers an **accredited certificate** relating to the **battery state of health** can request it directly from the tool. They will receive it within a few minutes at their email address.



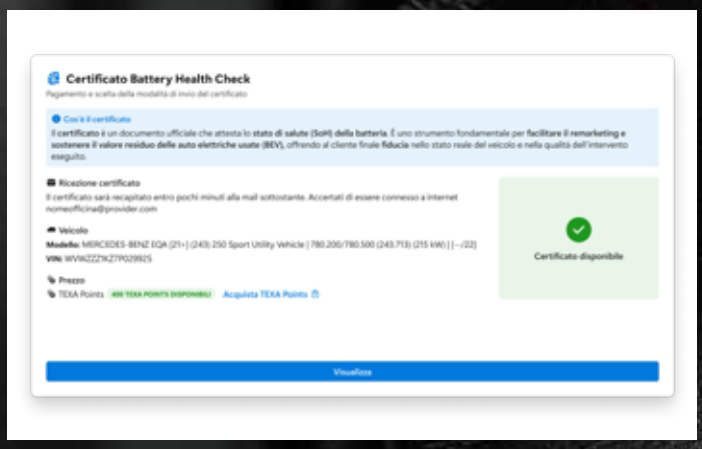
Selection menu



Vehicle identification



Dashboard with battery status



State of Health certificate by an accredited party available upon payment

Certification for the battery state of health

- **Workshop certificate:** vehicle repairers who own a TEXPACK E-DIAG CHARGER can provide customers with a certificate on the battery state of health with their own header. Service included in the TEXPACK E-DIAG CHARGER subscription.
- **Accredited certificate:** it is the same certificate as the workshop's, but it is accredited by a third party.

The accredited certificate is a paid service, charged on a pay-as-you-go basis, and reserved to the customers who own a TEXPACK E-DIAG CHARGER.

1st	**BUILT-IN SOFTWARE**	Included with E-DIAG CHARGER
2nd	**TEXPACK E-DIAG CHARGER**	Optional, annual subscription
3rd	**SoH CERTIFICATE**	Optional, pay-as-you-go

Dati dell'officina

Nome: Evviclarger
Indirizzo: Via Pistoni Roventi, 6 - 35121 - Testata (BO)
Operatore: Massimo Ibrido

CERTIFICATO OFFICINA
STIMA DELLO STATO DI SALUTE DELLA BATTERIA (SoH)

Data: 06/07/25 Ora: 12:34 PM

Informazioni sull'esecuzione del test

Luogo: Monastier di Treviso
Data: 06/07/25
Ora: 12:34 PM

Dati del veicolo

Marca/Produttore	MERCEDES-BENZ
Modello	EQA 250+
Targa	A8123CD
VIN	123456789ABCDEFG
Prima registrazione	06/07/2024
Chilometraggio dalla data del test	12.345

Dati del cliente

Nome	Luigi Galvani
Indirizzo	Via Maxwell, 4
CAP	35121
Provincia	TV
Città	Treviso
Identificatore	CLI - 245

Informazioni sulla batteria ad alta tensione

Capacità nominale lorda	69.7 kWh	Temperatura media cella/modulo	25.2 °C
Capacità nominale netta	66.5 kWh	Resistenza di isolamento del veicolo	3.581 MΩ
Architettura della batteria	400V	Stato di carica della batteria HV (SoC)	52%
Tipo di batteria	Ioni - Litio	Tensione effettiva del pacco batteria	341.3 Vdc
Tensione media cella/modulo	3.88 Vdc	Tensione nominale del pacco batteria	367.0 Vdc

Stato di salute stimato della batteria (SoH)

95 %

FAC-SIMILE

Workshop certificate

CERTIFICATO
DA ENTE ACCREDITATO SULLO STATO
DI SALUTE DELLA BATTERIA (SOH)

Informazioni sull'esecuzione del test

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95 %

FAC-SIMILE

Accredited certificate

Recharge and diagnosis never seen before

With a 10” multi-touch display

E-DIAG CHARGER is equipped with a **10” multi-touch colour display**, which guarantees great useability and a clear view on the operations to complete. Very interesting is its glove-touch technology, which ensures perfect use even if the operator is wearing gloves.

Direct access to the most useful operations

Thanks to a simple and intuitive software

The E-DIAG CHARGER software, developed based on **Windows**, provides all the information the user needs in a single screen so to have direct access to the most useful information. The easy-to-navigate menu exploits the wide display and reduces to a minimum the various operating steps: in next to no time, you will move from the initial activation phases to carrying out the diagnosis or charging services.

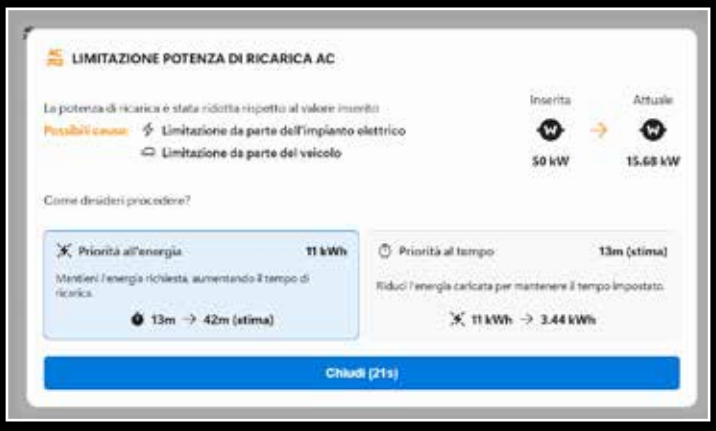
Below there is a summary of the main software screens, from the selection of the service to the diagnosis and charging phases:

Intelligent vehicle selection in automatic VIN SCAN 2.0 mode or guided by make and model

Selection of the timed or complete charging mode

Charging service in AC mode

Charging service in DC mode with status messages



Example of service messages

Battery Diagnosis

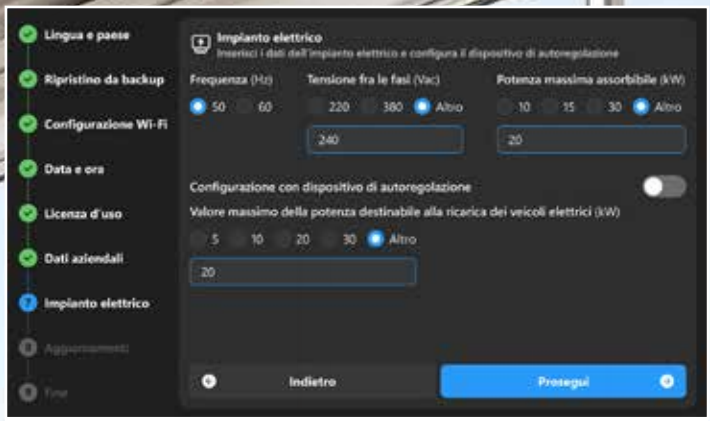
Power supply and energy management

E-DIAG CHARGER is powered by an industrial three-phase power socket in the workshop's electrical system. It allows **charging two vehicles simultaneously, one in AC and the other in DC**, with settable power thresholds. Furthermore, it can manage the **automatic adjustment** via accessory **(PLC ENERGY METER)** of the maximum **charging power** on the two branches avoiding untimely disconnections due to overdraw or the interventions of protections in the device's electrical power system and respecting the maximum power that can be used in the workshop's system.

PLC Energy Meter
Optional

Design and mobility

As by TEXA's tradition, during the project phase, special attention was given to the design and useability of the product, which were made clear through the well-finished and captivating contours, though preserving the practicality and immediateness of use. The structure, equipped with two practical castor wheels, can be moved easily and can therefore be used in small-sized workshops also.



Adjustment device and workshop electrical system data configuration (optional)

Simultaneous charging service in AC and DC mode

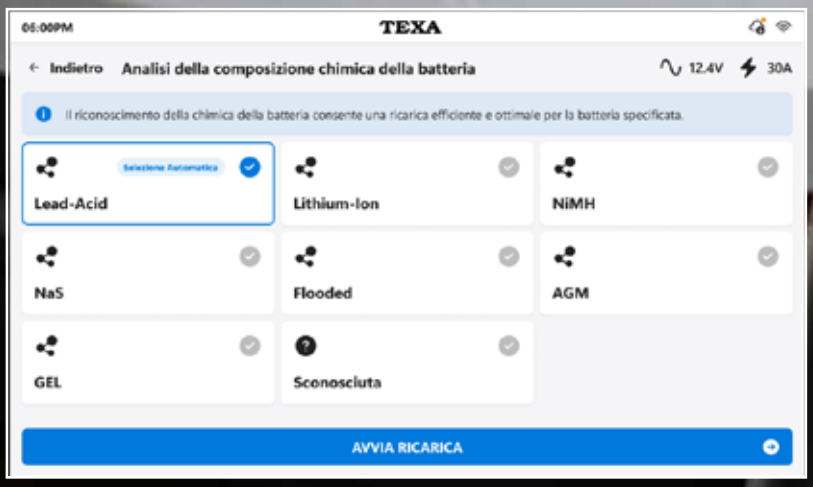
Reliable, versatile and intuitive,
E-DIAG CHARGER is perfect
for workshops that want to keep pace
with the new sustainable mobility.

Smart Battery Charger Unit kit
Ideal for working on all vehicles with 12 and 24 V batteries

E-DIAG CHARGER can be equipped with an additional **Smart Battery Charger Unit** (optional) module that allows extending the diagnosis and recharge of 12 and 24 V starter batteries, thus making the station evolve into a universal and **complete device** as for the vehicle's **service** and **traction batteries**.

In this configuration E-DIAG CHARGER offers four new methods of use: **charger, analyser, "Flashing mode" maintainer and recovery of deteriorated batteries***, where possible, ideal for intervening on all endothermic engines, electric or hybrid motors with 12 and 24 V batteries.

Using the **EIS** **(Electrochemical Impedance Spectroscopy) technology** it can identify the type of battery and analyse the chemical reactions in the cells.
Once the battery is recognised, the operator receives tips on how to manage it at best, thanks to the data contained in the database that can be consulted directly from the display with all the useful information, including a step-by-step guide.



Analysis of the chemical composition of the starter battery

*For deteriorated batteries there is a **desulphurisation cycle** that, through high-frequency electrical stimulations, removes deposits of lead sulphide from the plates, regenerating the battery's functionality.


With
Smart Battery
Charger Unit
12-24V
TEXA
PATENT
WARNING - AVERTISSEM

Perfect voltage, even during the self-diagnosis phase

Smart Battery Charger Unit is suitable for use in the workshop, also because it maintains the battery at a **perfectly stabilised voltage during the crucial phases of the maintenance activities**, such as when you need to locate a failure using self-diagnosis, reprogram one or more control units, calibrate the ADAS, etc. The diagnostic work in this mode, called **flashing mode**, allows meeting the manufacturers' recommendations. TEXA always has safety in mind, for this reason it developed special **clamps equipped with thermocouples** that measure the temperature of the battery terminals. This ensures that the charging phases are carried out in **complete safety**, thanks to a **system that immediately blocks the charge if there are abnormal temperature levels**, such as if the clamps are not properly positioned on the terminals.

OPERATING MODE

Smart Battery Charger Unit offers the following new functions:

- **AUTOMATIC and MANUAL charge** (with terminal temperature check during the charge)
- **Battery analyser** (for the automatic identification of the battery's chemistry and status)
- **Battery optimiser** (specific charging curve for any type of battery chemistry)
- **"Flashing mode" maintainer and "showroom" mode maintainer** (up to 120 A)
- **Tester** (through the Kevin method for voltage measuring)
- **Power adapter** (from 11.5 Vdc to 26 Vdc)
- **Diagnosis and adjustments** (programming of a new battery in the ECU)
- **Remote control** (via a Wi-Fi connection)


AC
E-DIAG
CHARGER
TEXA

Technical features

10” display
Industrial touchscreen

High-visibility
multi-function LEDs

3 power variants

22 kW 30 kW 60 kW

Cooling
air inlet

Emergency
button

DC charging
cable (3 m)
CCS 2 Combo

Connectivity

NAVIGATOR
NANO SERVICE
Vehicle interface
as a standard

Smart Battery
Charger Unit 12-24V
Optional

Power cable (8 m)
with 32 A, 63 A, 125 A
mobile plug based
on the station’s
power variant

AC charging cable
(3 m)
Type 2

Cooling air flow
direction

OUT

IN

Air filter

Off-road rear
wheels and
front soft wheels

Technical data

	E-DIAG CHARGER			SMART BATTERY CHARGER UNIT
				
Power				
	22 kW	**30 kW**	**60 kW**	**3 kW**
Environmental conditions				
Operating temperature	-40 °C ~ +60 °C, reduction required with temperature >50 °C			-40 °C ~ +60 °C, reduction required with temperature >50 °C
Storage temperature	-40 °C ~ +70 °C			-40 °C ~ +70°C
Operating relative humidity	≤90% RH, without condensation			≤90% RH, without condensation
Operating altitude	2,000 m at sea level			
Protection level	IP41			
Maximum operating noise	< 69 dB at a distance of 1 m			
Alternating current power supply				
Three-phase mains power socket IEC 60309	32A	63A	125A	
Length of power cable	8m			
Power distribution	3P + N + PE			
Operating supply voltage	380...480 VAC +6%/-10%			90-264VAC
Nominal input current	32A	44A	87A	
Maximum power supply	22 kVA	30 kVA	60 kVA	
Operating frequency	50/60Hz			50/60Hz
Absorption in stand-by mode	≤ 350 VA			
Electrical efficiency	≥ 94%			≥ 91%
Power factor at full load	≥ 95%			≥ 95% / 230 VAC, 0.98 / 115 VAC at full load
Direct current output				
Voltage values	150 Vdc ~ 1000 Vdc			5 Vdc ~ 26Vdc
Current values	0 ~ 100 A	0 ~ 100 A	0 ~ 200 A	0 ~ 125 A
DC charging connector	CCS2			
Length of DC charging cable	3,3 m			
Alternating current output				
AC charging connector	TYPE 2			
Length of AC charging cable	3,3 m			
Reference regulations				
	IEC 61851-1 IEC 61851-23 IEC 61851-21-2 CCS2 DIN 70121:2012 ISO 15118:2013 ISO 15118:2010			EN 62368-1 EN 55032 EN 61000-3-2 EN 61000-3-3 EN 55035: 2017/A11: 2020 IEC 61000-4-2,3,4,5,6,8,11
User interface, control and communication				
Display	TFT 10.1" display Gorilla® Glass, Resolution: 1024x600			
Connectivity	IEEE 802.11a/b/g/n/ac/ax Wi-Fi 6E and Bluetooth 5.3			USB Type B
Operating system	Windows 11 IoT Enterprise LTSC			
Mechanical dimensions				
Dimensions (L x A x P)		668 x 1123 x 744 mm		390 x 470 x 105 mm
Weight	110 kg	120 kg	150 kg	8 kg

Simplifying the present, anticipating the future

Founded in 1992
60,000 covered sq. m
in an area of over 100.000 mq
2 new plants

7 subsidiaries
in the world

Approximately 1,000 TEXA
employees in the world
over 400 technical profiles

700 Distributors
over 200,000 active
customer workshops

Patents
85 Master, 165 total

Certifications:
ISO 9001
IATF 16949
E.P.A.
ISO/IEC27001
TISAX
ISO 14001:2015

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TEXA S.p.A.
Via 1 Maggio, 9
31050 Monastier di Treviso
Treviso - ITALY
Tel. +39 0422 791311
Fax +39 0422 791300
www.texa.com - info.it@texa.com

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