

**CHARGING
SOLUTION**

NexSys® COMpact

Life COMpact™

“POWER ON DEMAND”



EnerSys®
Power/Full Solutions

CHARGING SOLUTION

NexSys® COMpact

Life COMpact™

“POWER ON DEMAND”

INTRODUCING
THE INNOVATIVE
ON-BOARD SYSTEM
FROM ENERSYS



CHARGING ANYWHERE AT ANYTIME

In modern industrial activities and material handling operations the need of space to optimize every day's operations, combined with the necessity of having trucks always available, is becoming more and more demanding. This turns into a request for more flexible, compact and integrated solutions, virtually without maintenance whilst able to perform zero battery change applications. To satisfy this increasing demand, EnerSys has designed and developed the advanced range of energy integrated solutions for Class III trucks combining in one package the renowned NexSys TPPL battery technology, the new smart onboard charger **NexSys® COMpact** and the most advanced iQ intelligence to provide a turnkey solution to recharge ANYWHERE at ANYTIME. The new integrated solution offers to the market a breakthrough technology, eliminating any unprofitable and unproductive transfer to dislocated charging stations.

For all other applications and battery technologies which require an onboard solution, EnerSys presents its new **Life COMpact™** onboard charger that can either be installed inside the battery compartment or become an integral part of the truck.



HOW CAN THIS BE ACHIEVED?

NexSys TPPL technology enables fast and opportunity charge that allows one battery to deliver more than its nominal energy during the day. Integrating the NexSys COMpact charger with the battery, together with our unique iQ charging profiles, will allow the operator to drive to the closest AC socket and recharge the battery with no need to drive to the charging station.

WHY SHOULD YOU CONSIDER USING NexSys® COMpact AND LIFE COMpact™ FOR YOUR CLASS III TRUCK?

Because it offers substantially lower costs of ownership and potentially reduced capital investment for your energy infrastructure (charging rooms and battery handling equipment).

When integrated with our NexSys TPPL sealed VRLA batteries the truck can be recharged anywhere, anytime requiring no topping up, virtually maintenance free whilst reducing service costs and manual intervention.

NexSys® technology provides a green approach in powering your trucks with a low carbon footprint, 99% recyclable battery and high energy efficiency.



FLEXIBILITY AT ITS BEST

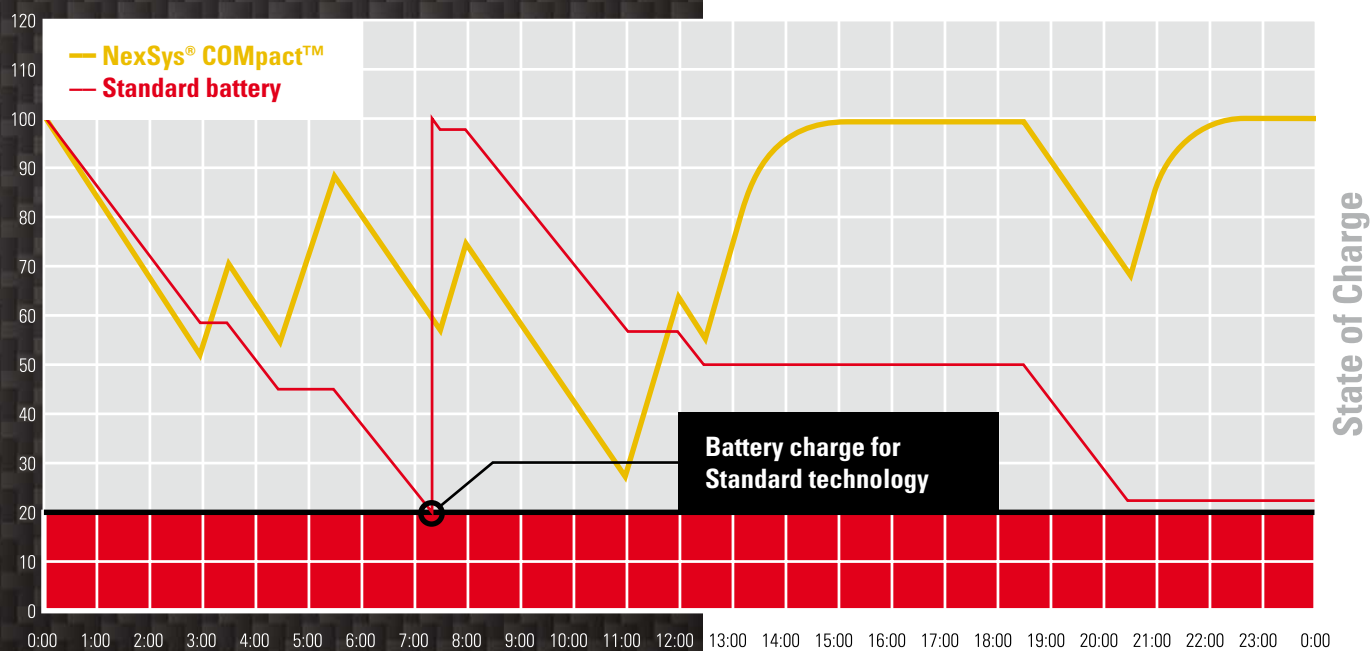
The onboard charger is physically installed into the battery tray or into the truck making charging an easy and standard task.

- Hard to fulfill unexpected work duties?
- Lack of space for charging rooms?
- No time to drive to charging room for opportunity charge?

These inefficiencies are totally removed by using the new **onboard COMpact range** solutions.

The Charging Room becomes “portable” and wherever there is an AC socket the system can be opportunity charged.

The NexSys TPPL Technology can deliver up to 160% of its nominal capacity by means of fast and opportunity charges and can always work in partial state of charge with no necessity to be totally recharged every day.



COMpact, OUR MOST COMPACT SIZE TO DATE

The **onboard COMpact** range has been designed to fit most of the range of 24V batteries for Class III, without requiring any further additional space or redesign. Featuring our most compact size to date, it also represents the best-in-class high frequency onboard charging solution for all applications in the field of material handling equipment.



EFFICIENCY AND SUSTAINABILITY

The high efficiency (up to 94%) of **onboard COMpact range** and the optimized charging factors designed by EnerSys make the range a cost-saving benchmark which reduce your overall battery recharge costs by consuming less electricity and reducing carbon footprint.

COMMUNICATION, NOT JUST PURE ELECTRONICS

What's new about **onboard COMpact range**? It's smart. The unique EnerSys iQ intelligence and the advanced charging profiles embedded into the charger will govern every step of the charging process guaranteeing a safe, fast, efficient and reliable recharge ensuring that your equipment runs at optimum capacity with no downtime to your operation.

The LVA (Low Voltage Alarm) is also a standard equipment of the pack and will control, by visible and audible alarms, any kind of misuse of the battery linked to over-discharges or incorrect procedures.

With its bluetooth BLE capability the COMpact range can communicate with EnerSys designed Apps and can allow an easy and precise monitoring of all the chargers in site with a simple click. Data can be clouded and analyzed by an EnerSys expert to ensure the best performance of your activities and avoid catastrophic failures.



| Specifications | Units | NexSys COMpact | LIFE COMpact |
|-----------------------------------|-----------------|----------------------|--------------|
| Nominal Battery Voltage | V | 24 | |
| Input voltage | Vac | 230V +/-10% | |
| Frequency | Hz | 50Hz | |
| Max current draw @ 230V AC/Module | A | 5.4 | |
| Power factor | | 0.99 | |
| AC input cable | mm ² | 1.0 | |
| AC input cable Length | m | 2.5 | |
| Max output current/ Module | A | 38 | |
| Battery cables section | mm ² | 10 | |
| Battery cables length | m | 1.0 | |
| IP Protection | | IP20 | |
| Operating temperature | °C | 0-45°C | |
| Display | | LEDs | |
| Weight /Module | kg | 2.7 | |
| Dims. (H x W x D) without rubber | mm | 69.4 x 131.0 x 274.5 | |
| Dims. (H x W x D) with rubber | mm | 84.4 x 131.0 x 277.0 | |

| NexSys COMpact | | | | | | | |
|----------------------------|--------------------------|----------|-------------|----------|--------------|----------|---------|
| Profile | NEXSYS STND | | NEXSYS FAST | | NEXSYS BLOC5 | | |
| Charging rate | 0,2C5 | 0,25C5 | 0,26C5 | 0,4C5 | 0,2C5 | 0,7C5 | |
| Recharge time 20%-100% SOC | 6,25 h | 5,5h | 5,5 h | 4,6h | 6,25h | 3,5h | |
| Recharge time 40-80% SOC | 2h | 1,6h | 1,5h | 1h | 2h | 0,6h | |
| Model | C5 battery capacity (Ah) | | | | | | |
| NexSys COMpact 1kW | 5 A- 38A | 120- 190 | 120- 152 | 124- 147 | ----- | 26- 190 | 26- 55 |
| NexSys COMpact 2 kW | 39A-76A | 195- 380 | 156- 304 | 150- 293 | 120- 190 | 195- 380 | 56- 109 |

| Life COMpact | | | | |
|----------------------------|--------------------------|----------|----------|-------------------|
| Profile | Flooded HD | | GEL | |
| Charging Rate | 0,13C5 | 0,25C5 | 0,17C5 | 0,22C5 |
| Recharge time 20%-100% SOC | 8,5h | 6,5h | 10h | 9h |
| Recharge time 40-80% SOC | 7h | 6h | 8,5h | 8h |
| Model | C5 battery capacity (Ah) | | | |
| LifeCOMpact 1kW | 5 A- 38A | 47- 293 | 24- 152 | 36- 224 |
| LifeCOMpact 2kW | 39A-76A | 300- 585 | 156- 304 | 230- 448 219- 346 |

SPECIAL SOLUTIONS FOR NexSys® COMpact IN DIN CONFIGURATION FOR CLASS III APPLICATION

| Battery Type | | Standard Pack | | | | NexSys COMpact | | | |
|--------------|-------------|---------------|----------------------------|----------------------------|--------------------|----------------|---------------|------------------------|----------------------------------|
| Battery Type | sizes (mm) | V batt | C5/Technology | MAX Avail Cap per Day | Charger | V batt | C5/Technology | MAX Available Capacity | NexSys Charger |
| DIN 1 | 621x209x625 | 24V | 250Ah Flooded 220Ah GEL | 200Ah Flooded 176Ah GEL | 24Volts 35/40 A | 24V | 190Ah TPPL | 304Ah TPPL | NexSys COMpact 1 kW (38 A) |
| DIN 2 | 621x281x625 | 24V | 375Ah Flooded 330Ah GEL | 300Ah Flooded 264Ah GEL | 24Volts 50/60 A | 24V | 285Ah TPPL | 456Ah TPPL | NexSys COMpact 2 kW (76 A) |
| BS | 660x145x690 | 24V | 200Ah Flooded 162Ah GEL | 160Ah Flooded 129Ah GEL | 24Volts 25/35 A | 24V | 166Ah TPPL | 256Ah TPPL | NexSys COMpact 1 kW (38 A) |

Most common standardised models. Specific customised models can be developed

ABOUT ENERSYS®

EnerSys®, the global leader in stored energy solutions for industrial applications, manufactures and distributes reserve power and motive power batteries, battery chargers, power equipment, battery accessories and outdoor equipment enclosure solutions to customers worldwide.

Motive power batteries and chargers are utilized in electric forklift trucks and other commercial electric powered vehicles.

Reserve power batteries are used in the telecommunication and utility industries, uninterruptible power supplies, and numerous applications requiring stored energy solutions including medical, aerospace and defense systems.

Outdoor equipment enclosure products are utilized in the telecommunication, cable, utility, transportation industries and by government and defense customers.

The company also provides aftermarket and customer support services to its customers from over 100 countries through its sales and manufacturing locations around the world.

**WHEREVER
YOU DO BUSINESS,
ENERSYS®
CAN SUPPORT YOU
WITH MOTIVE
POWER ENERGY.**





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Power/Full Solutions

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