

**CHARGING
SOLUTIONS**

**NexSys® COMpact
Life COMpact™**

**POWER
ON DEMAND**



EnerSys®
Power/Full Solutions

CHARGING SOLUTIONS

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 optimise every day 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 with minimal maintenance and minimal downtime.

To satisfy this increasing demand EnerSys® has designed and developed an advanced range of energy integrated solutions for Class III trucks.

This package combines our renowned NexSys TPPL battery technology, our new smart onboard charger **NexSys® COMpact** and our most advanced iQ intelligence ever, to provide a turnkey solution to use **ANYWHERE at ANYTIME**.

The new integrated solution offers market breakthrough technology, eliminating any unprofitable and unproductive transfer to dislocated charging stations, lower maintenance costs and easy operation.

For other applications and Wet or Gel battery technologies which require an onboard solution, EnerSys presents its new **Life COMpact™** onboard charger that can also 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 throughput per day. Integrating the NexSys COMpact charger with the battery, together with our unique iQ charging profiles, will allow the operator to use the same package throughout the shift by connecting to the closest AC socket and recharge the battery, without the need to drive to a dedicated charging room.

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 with reduction in service and operational costs.

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

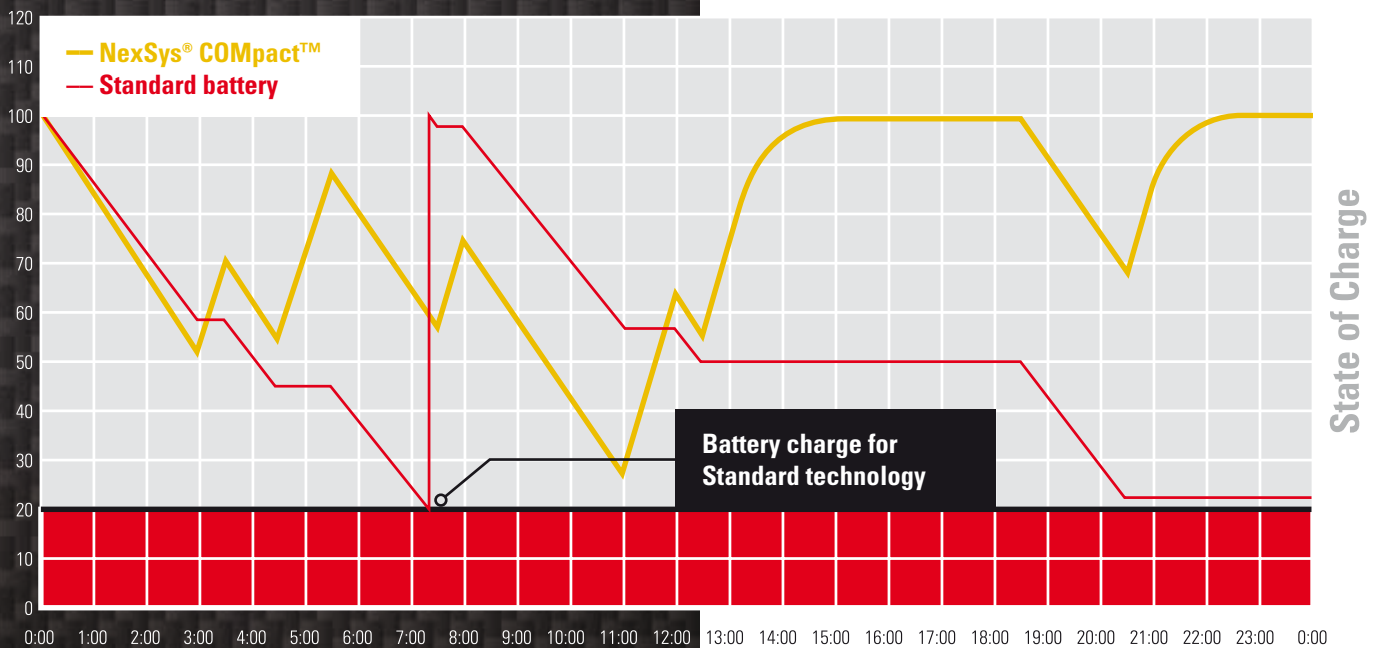
The onboard charger is physically installed into the battery tray or into the truck making charging an easy and standard task.

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

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 charged.

When used with NexSys TPPL technology the system can deliver up to 160% of its nominal capacity by means of fast and opportunity charge and can 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 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 the **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 the **onboard COMpact™ range?**

It's smart. The unique EnerSys® iQ intelligence embedded inside the charger, together with the advanced charging profiles, 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 standard equipment of the pack and will control, by visible and audible alarms, any kind of misuse of the battery linked to over discharging or incorrect procedures.

With Bluetooth capability, the COMpact range can communicate with the new **E Connect™ APP** allowing easy and precise monitoring of all the chargers on site with a simple click. Data can be clouded and analyzed by an EnerSys expert to ensure optimal performance of your operation.



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	158Ah TPPL	252Ah TPPL	NexSys COMpact 1 kW (38 A)

Most common models shown. Specific models can be developed. Ask your EnerSys representative today !

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 utilised 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 defence systems.

Outdoor equipment enclosure products are utilised in the telecommunication, cable, utility, transportation industries and by government and defence 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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