TPPL
TECHNOLOGY

NexSys® TPPL

NEXSYS® TPPL BLOC BATTERIES THE NEXT-GENERATION OF THIN PLATE PURE LEAD (TPPL) TECHNOLOGY

EnerSys®
Power/Full Solutions

TRUST THE POWER OF

NexSys® TPPL

NexSys® TPPL (Thin Plate Pure Lead) bloc batteries provide a highly effective energy storage solution that is compact, safe and straight-forward to use, while also offering elevated performance characteristics.

NexSys® TPPL bloc batteries provide exceptional flexibility. Use them whenever you want and recharge them whenever you can – during breaks, or at the end of the shift. NexSys® TPPL bloc batteries can even be put back into service before they are fully charged.

Combining advanced Thin Plate Pure Lead (TPPL) bloc design with robust materials and construction, NexSys® TPPL bloc batteries provide excellent performance, are highly resistant to shock and vibration and will literally change the way you work!

BATTERIES THAT ARE READY TO WORK

NexSys® TPPL bloc batteries feature proprietary Thin Plate Pure Lead (TPPL) technology, which makes them energy-dense, maintenance-free and ideal for opportunity and fast charging. They also deliver significantly longer run times and life compared to flooded or gel batteries.

ENHANCED FEATURES

The key features and benefits of NexSys® TPPL bloc batteries are summarised below:

TPPL TECHNOLOGY

THIN PLATE PURE LEAD (TPPL) TECHNOLOGY

- Thin plate structure results in higher energy throughput
- Up to 20% more power than the same sized conventional battery
- TPPL batteries are 99% recyclable

$-H_2$ Minimum gassing ideal in sensitive areas

SAFEGUARDS OPERATIONS AND OPERATORS

- Sealed construction – no acid exposure, spills or messes
- Minimal gassing – ideal for operation in sensitive areas

RECHARGE 98% in 2 hours

A MORE FLEXIBLE WORKFLOW

- Full recharge in less than 2 hours
- Opportunity charging during breaks or at the end of a shift for maximum flexibility and convenience

Maintenance free

LOW UPKEEP AND MORE PRODUCTIVITY

- Maintenance-free: no watering, changing or equalization
- Longer shelf life – up to TWO years when fully charged (at 20ºC)

cycle life

DESIGN THAT POWERS PRODUCTIVITY

- Excellent cycle life: optimized cycling performance and high energy throughput
- Up to 1,500 cycles at 60% Depth of Discharge (DoD)

Integrated Data

INTEGRATED DATA COMMUNICATION

- Automatic alerts when it's time to recharge
- Intuitive battery monitoring and data capture capabilities

MAIN APPLICATIONS INCLUDE:

- FLOOR CARE AND CLEANING MACHINES
- SHUTTLES/PERSONNEL CARRIERS
- INDUSTRIAL UTILITY VEHICLES
- AERIAL LIFTS AND PLATFORMS
- AUTOMATED GUIDED VEHICLES (AGV)
- GOLF CARTS

Opportunity charging NexSys® TPPL bloc batteries means they are able to deliver up to 160% energy throughput on a daily basis meaning longer run time and less unproductive downtime. Avoiding deep discharges, helps to extend the longevity of these batteries.

MAXIMUM POWER IN LESS SPACE

NexSys® TPPL bloc batteries are constructed with pure lead plates, which are extremely thin, so more of them fit into the battery. More plates, means more power – up to 20% more power than the same sized conventional battery.

Simple, powerful and compact, NexSys® TPPL bloc batteries are easy to handle and deliver optimal performance in commercial and industrial floorcare applications.

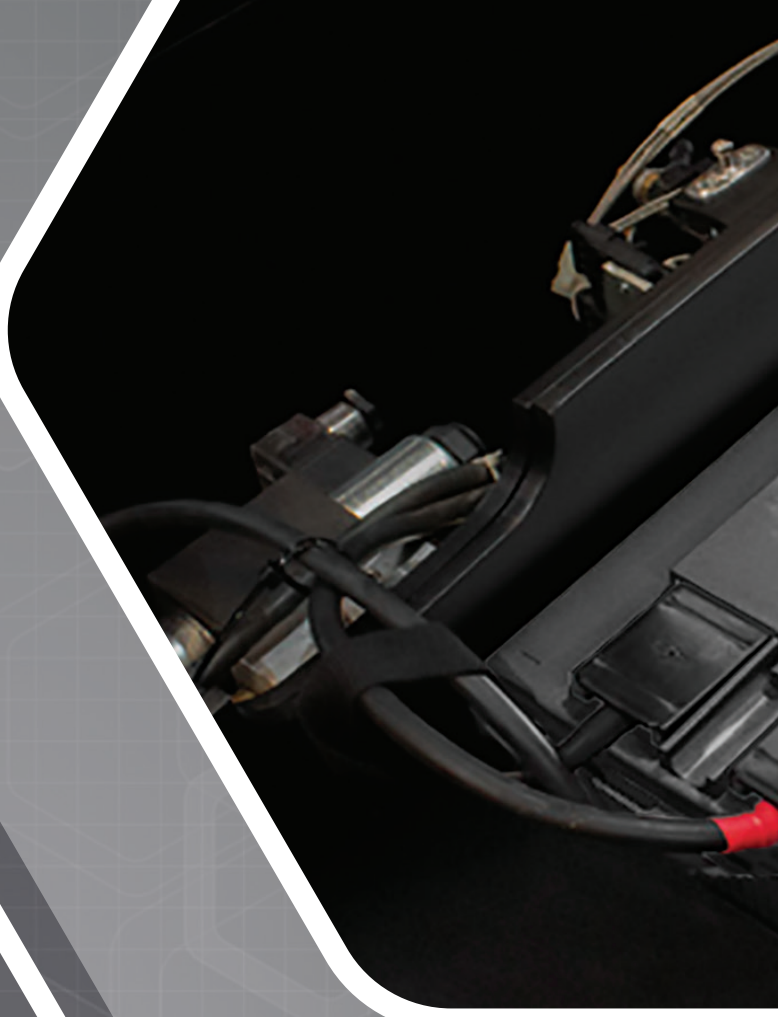
NEXSYS® TPPL BLOC BATTERY SPECIFICATION OPTIONS AVAILABLE:

Battery type	Voltage (V)	Nominal Ah Capacity @ the C5 rate	Nominal Ah Capacity @ the C20 rate	Nominal Dimensions								Nominal Weight		Standard terminals	Terminal Adapter options	Terminal Layout
				L		W		H		Terminal Height						
				in	mm	in	mm	in	mm	in	mm	lbs	kg			
12NXS26	12	26	30	9,84	250	3,82	97	5,79	147	5,67	144	21,1	9,6	M6 Female	A	1
12NXS36	12	36	42	9,84	250	3,82	97	7,76	197	7,64	194	29	13,2	M6 Female	A	1
12NXS38	12	38	42	7,74	197	6,5	165	6,69	170	6,37	162	38,4	17,4	M6 Female	A	1
12NXS50	12	50	56	8,66	220	4,76	121	9,92	252	9,76	248	41	18,6	M6 Female	A	1
12NXS61	12	61	63	11,02	280	3,82	97	10,39	264	9,76	248	42	19,1	M8 Female	B	2
12NXS62	12	62	65	12,95	329	6,54	166	6,85	174	6,54	166	53,1	24,1	M6 Female	A	1
12NXS85	12	85	97	15,55	395	4,13	105	10,39	264	9,76	248	60	27,2	M8 Female	B	2
12NXS86	12	86	100	12,99	330	6,79	172	8,43	214	8,62	219	77,4	35,1	3/8"-16 Female	A	4
12NXS90	12	90	104	11,89	302	6,89	175	8,78	223	8,94	227	69,45	31,5	M8 Female	A	3
12NXS120	12	120	128	13,31	338	6,81	173	10,71	272	10,75	273	94,8	43,0	M6 Female	A	3
12NXS137	12	137	154	16,9	429	6,79	172	9,36	238	9,36	238	105	47,6	M6 Female	B	2
12NXS157	12	157	183	16,9	429	6,79	172	10,75	273	10,75	273	117	53,1	M6 Female	B	2
12NXS166	12	166	187	22,09	561	4,92	125	11,14	283	10,35	263	113,3	51,4	M8 Female	B	2
12NXS186	12	186	210	22,09	561	4,92	125	12,48	317	11,69	297	131,1	59,5	M8 Female	B	2

CHARGING SOLUTIONS FROM ENERSYS®

Our charging systems provide flexible, modular designs – sized and tuned with charging profiles specific to your battery technologies and operating parameters.

- IMPAQ™ battery chargers and NexSys®+ battery chargers offer a better value in high frequency charging and include the proprietary NexSys® TPPL bloc and standard charge profiles.
- Using EnerSys® high-frequency Charging Solutions, lowers TCO (Total Cost of Ownership) by reducing maintenance and energy costs.
- Low-component designs offer flexibility, safety and reliability.



SERVICE AND SUPPORT

Our battery support services range from system design, installation and certification to testing, maintenance and repair.

Our comprehensive recycling support program accepts lead acid batteries of all sizes, from all manufacturers.

BATTERY MONITORING

Our advanced tools and technologies deliver actionable intelligence to optimize battery maintenance and operation.

EnerSys®
Power/Full Solutions

World Headquarters
2366 Bernville Road
Reading, PA 19605
USA
+1-610-208-1991 / +1-800-538-3627

EnerSys EMEA
EH Europe GmbH
Baarerstrasse 18
6300 Zug Switzerland
+41 44 215 74 10

EnerSys APAC
No. 85, Tuas
Avenue 1,
Singapore 639518
+65 6558 7333

www.enersys.com

EMEA-EN-PG-NEX-BL-TPPL-0425