

KEY MESSAGE FOR SALES

With more than 300,000 NexSys® Thin Plate Pure Lead (TPPL) batteries successfully deployed worldwide, EnerSys continues to invest in continuous product improvement to better serve evolving fleet needs. The NexSys TPPL 2V battery line extension expands on this proven foundation by introducing U.S. specific cell sizes that increase usable capacity, improve cost efficiency, and broaden application coverage, all while maintaining the simplicity and reliability customers expect from TPPL technology. This evolution makes NexSys TPPL batteries an even clearer, easier upgrade from flooded lead-acid, without forcing customers toward lithium complexity.



WHAT CHANGED AND WHY IT MATTERS

BEFORE

Previous NexSys TPPL 2V Cell Offering

AFTER

NexSys TPPL 2V Cell Line Extensions (U.S. Cell Sizes)

PRODUCT REALITY	WHAT'S NEW
<ul style="list-style-type: none"> Limited DIN-based cell sizes for many Class 1 and Class 2 trucks Lower usable amp hour options in standard U.S. trays Strong TPPL technology performance, but fewer direct flooded replacements 4-year warranty structure 	<ul style="list-style-type: none"> New 90Ah and 125Ah plate designs Americas-specific U.S. cell sizes Direct 1:1 replacement for common flooded lead-acid batteries Expanded coverage across Class 1, 2, and 3 equipment Warranty extended to 5 years (60 months), aligning with common lease structures
FEATURES	ENHANCED PERFORMANCE
<ul style="list-style-type: none"> Maintenance-free TPPL technology Opportunity and fast charging capability No watering, washing, or battery changing Compatible with NexSys® chargers and accessories UL compliant 	<ul style="list-style-type: none"> Up to 40% increase in usable capacity compared to DIN TPPL technology options, depending on model Lower cost per amp hour and lower cost per kWh delivered over battery life Faster recharge rates, including opportunity charging during breaks High energy throughput supports multi-shift operations Optimized for simple trays, reducing ballast, and system complexity
CUSTOMER IMPACT	
<ul style="list-style-type: none"> Conversions sometimes required compromises in capacity or weight Not all fleets could move to TPPL technology without reconfiguration TPPL technology value was clear, but applicability was narrower 	

TECHNOLOGY ADVANTAGES

- Proven TPPL technology design
- Maintenance-free operation
- No spills, no watering, no battery change
- Every battery includes a smart monitoring device with access to E-Connect™ mobile app
- Enables real-time visibility into state of charge, usage, and battery health
- Over 99% recyclable with a well-established recycling process

SALES BENEFITS & CUSTOMER VALUE PROPOSITION

BEFORE

AFTER

CUSTOMER PAIN POINTS	DELIVERED SOLUTIONS
<ul style="list-style-type: none"> Customers forced to choose between flooded lead acid maintenance and lithium complexity DIN-based TPPL technology sizes limited direct replacement opportunities Energy density constraints in existing battery compartments 	<ul style="list-style-type: none"> Seamless transition from flooded lead acid to TPPL technology Higher amp-hour capacity without changing truck balance or footprint Reduced downtime through fast and opportunity charging Lower total cost of ownership driven by: <ul style="list-style-type: none"> - Zero maintenance - Higher usable energy - Improved productivity - Predictable lifecycle performance aligned to lease terms

WHY THIS IS RELEVANT NOW

- Warehouses demand higher throughput with fewer interruptions
- Labor, water, and maintenance costs continue to rise
- Customers want sustainability without operational risk
- Fleets need proven technology that fits today's equipment, not tomorrow's redesigns



The updated NexSys TPPL 2V battery line delivers a practical, maintenance-free power upgrade that increases usable energy, lowers cost per kWh, and expands fleet coverage, all backed up by proven deployment scale, built-in intelligence, and a longer warranty designed to support modern leasing and fleet strategies.

NEW 2V PRODUCT LINE – U.S. CELL SIZES

NEXSYS TPPL 2V LARGE FORMAT CELLS

90AH – CLASS 1		
90-13	6NXSA540	540 Ah
90-17	8NXSA720	720 Ah
90-21	10NXSA900*	900 Ah
90-25	12NXSA1080*	1080 Ah
125AH – CLASS 2		
125-13	6NXSA750	750 Ah
125-15	7NXSA875*	875 Ah
125-17	8NXSA1000*	1000 Ah

2V UPGRADE FROM DIN TO U.S. CELL SIZES

NEXSYS TPPL 2V LARGE FORMAT CELLS

FLOODED CELL SIZE	FLOODED AH	DIN TPPL AH	NEW U.S. AH	INCREASE
90-17	720	660	720	9%
90-19	810	660	720	9%
90-21	900	770	900	17%
90-23	990	770	900	17%
90-25	1080	770	1080	40%
125-13	750	700	750	7%
125-15	875	700	875	25%
125-17	1000	770/840	1000	30% / 19%

*Dual cable available



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