



STATIONARY TUBULAR CELLS BROCHURE

STATIONARY 2V Cells :

OPzS: HDP, TBS
PPCP / HR: NDP

STANDARDS:

IS 1651:2013
DIN 40736

COMPANY:**SHUBHAM INDUSTRIES**

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INTRODUCTION

ABOUT US.

DISCOVER - ENERTEX

Welcome to ENERTEX, India's premier brand of Industrial Batteries. Enertex Brand offers a wide range of Stationary Cells – OPzS (HDP & TBS) and PPCP / HR (NDP) Tubular Batteries – manufactured using state-of-the-art techniques. Our expertise covers special lead alloys, high-quality lead oxides, precision grid castings, pressure die-casting, and expertly crafted pasted plates, ensuring consistent performance and long service life.



COMPANY FACTS

Established in 1994, company began manufacturing tubular batteries for home inverters during India's rising energy demand in the post-globalization era. In 2008, the company set up its second manufacturing unit in Nagpur. By 2018, company expanded into OPzS (TBS & HDP) and PPCP / HR (NDP) 2V Stationary Cells ranging from 40Ah to 6600Ah. In 2019, the company diversified into lithium-ion solutions, developing LFP and Li-Ion battery packs to meet the growing need for advanced energy storage systems.

5000+

Finished Project

30+

Years in Business

100+

Applications Covered

800+

Happy Clients

MISSION | VISION

Our Mission

To deliver intelligent and innovative energy solutions that empower customers with trust, efficiency, and development.

Our Vision

To be the world's most trusted energy solutions company, shaping smarter energy with intelligence, innovation, and excellence.

WHAT ARE STATIONARY TUBULAR CELLS

Stationary tubular cells are long-life energy storage batteries designed to deliver reliable DC power for control, protection, and backup applications in industrial and utility infrastructure. These cells remain fixed at one location (stationary) and are optimized for continuous float charging and deep discharge cycles.

HOW THEY WORK

A stationary tubular cell uses tubular positive plates, where active material is held inside porous tubes. This design prevents shedding, ensures uniform utilization of active mass, and significantly increases the battery's service life. Combined with robust negative plates, strong separators, and large electrolyte volume, these cells offer exceptional reliability in demanding environments.

ADVANTAGES:

- Very suitable for super critical applications / uses
- Long Serviceable Life (15 years) / Stable Battery Bank
- Visible Health Monitoring
- Easy to maintenance & identification of any issue
- High & Flexible Discharge Rates

BATTERY BANK

Stationary tubular cells are manufactured as individual 2V units, and these cells are connected in series to create the required system voltage. By joining multiple cells together—such as 12 cells for 24V, 24 cells for 48V, or 110 cells for 220V—any desired DC output can be achieved for power plants, substations, telecom and industrial systems.

SERIES & PARALLEL:

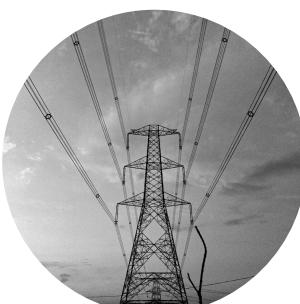
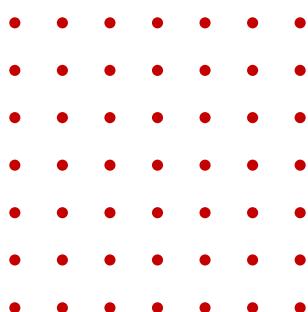
Series: Increases voltage, same capacity (Ah)

Parallel: Increases capacity (Ah), same voltage



APPLICATIONS

Stationary tubular battery banks are essential across power and industrial infrastructure. They support Power Generation systems in thermal, nuclear, hydro, gas and captive plants. In Renewable Energy, they stabilize solar, wind, hybrid and microgrid operations. In Transmission & Distribution, they back up substations, load dispatch and protection systems. For Industrial, Telecom and Critical Infrastructure, they ensure reliable power for UPS, data centers, telecom networks, automation and rail signalling.



POWER PLANTS

CONVENTIONAL POWER PLANTS

- Thermal Power Plants
- Nuclear Power Plants
- Hydro Power Plants
- Gas-Based Combined Cycle Plants
- Captive / Industrial Power Plants

RENEWABLE INFRASTRUCTURE

GREEN ENERGY

- Solar Power Plants (Utility Scale & Rooftop)
- Wind Power Projects
- Hybrid RE Systems (Solar + Wind + DG)
- Energy Storage Systems (ESS / Microgrids)
- Green Hydrogen Projects (Auxiliary DC systems)

GRID INFRASTRUCTURE

Transmission & Distribution

- Substations (66kV / 132kV / 220kV / 400kV / 765kV or any other)
- Load Dispatch Centers (SLDC / RLDC / NLDC)
- Switchyard Control & Protection Panels
- GIS & AIS Substation DC Systems
- Distribution Network Automation Systems

INDUSTRIAL, TELECOM & CRITICAL INFRASTRUCTURE

UPS, Switchgear, IT, Communication & Industrial plants

- UPS & Data Centers
- Telecommunication / BTS Towers / Exchanges
- Industrial Automation & Process Control Plants
- Switchgear Panels (HT/LT Control Panels)
- Railways & Metro Signalling Systems

TYPES OF STATIONARY BATTERY BANKS

HDP - TBS - NDP

Enertex offers three distinct stationary cell ranges for varied applications - HDP, TBS, NDP stationary cells. HDP OPzS are heavy-duty cells with thick plates, special alloys, and high electrolyte volume for long cycle life, high-discharge performance, and deep-discharge endurance. TBS OPzS deliver balanced float performance with optimized plate design and lower maintenance. NDP PPCP/HR cells use lightweight PPCP or Hard Rubber (HR) containers and low-antimony plates, offering reliable cycling and low maintenance for solar, telecom, and medium-duty backup.

HDP OPzS

High Discharge Performance OPzS cells with thicker tubular plates, larger electrolyte reserve, special alloy, and strong high-discharge capability, delivering long cycle life and superior deep-discharge endurance for industrial duty.



TBS OPzS

Balanced-design OPzS cells with optimized plate thickness, antimony alloy, and controlled electrolyte volume, giving stable float service, lower water loss, and reliable standby performance.

NDP PPCP/HR

PPCP or HR container tubular cells designed with low-antimony plates, reduced weight, and lower maintenance, offering good cycle life and high reliability for solar, telecom, and medium-duty backup.

HDP OPzS

STANDALONE CELLS-

CELL NOMENCLATURE	RATED CAPACITY (AH) @C10	L (mm) (± 5) Total	W (mm) (± 5) Total	H (mm) (± 20) Max.	STARTING CURRENT (A)	FINISHING CURRENT (A)
EHD100S	100AH	206	103	430	12	6
EHD150S	150AH	206	103	430	18	9
EHD200S	200AH	206	103	430	24	12
EHD250S	250AH	206	124	430	30	15
EHD300S	300AH	206	145	430	36	18
EHD400S	400AH	206	124	546	48	24
EHD500S	500AH	206	145	546	60	30
EHD600S	600AH	206	145	721	72	36
EHD700S	700AH	206	191	721	84	42
EHD800S	800AH	206	191	721	96	48
EHD900S	900AH	210	233	721	108	54
EHD1000S	1000AH	210	233	721	120	60
EHD1100S	1100AH	210	275	721	132	66
EHD1200S	1200AH	210	275	721	144	72
EHD1300S	1300AH	210	275	721	159	80
EHD1400S	1400AH	214	399	880	168	84
EHD1500S	1500AH	214	399	880	180	90
EHD1600S	1600AH	214	399	880	192	96
EHD1800S	1800AH	214	399	880	216	108
EHD2000S	2000AH	212	487	880	240	120
EHD2200S	2200AH	212	487	880	260	130

CELLS PARALLELING-

BATTERY NOMENCLATURE	RATED CAPACITY (AH) @C10	Single Cell (for parallel)	Number of Cells in Parallel	FINISHING CURRENT (A)
EHD2600S	2600AH	EHD1300S	2	156
EHD2800S	2800AH	EHD1400S	2	168
EHD3000S	3000AH	EHD1500S	2	180
EHD3200S	3200AH	EHD1600S	2	192
EHD3600S	3600AH	EHD1800S	2	216
EHD4000S	4000AH	EHD2000S	2	240
EHD4200S	4200AH	EHD1400S	3	252
EHD4400S	4400AH	EHD2200S	2	264
EHD4500S	4500AH	EHD1500S	3	270
EHD4800S	4800AH	EHD1800S	3	288
EHD5400S	5400AH	EHD1800S	3	324
EHD6000S	6000AH	EHD2000S	3	360
EHD6600S	6600AH	EHD2200S	3	396

Nominal Cell Voltage - 2.2 Volts

Container MOC: Styrene Acrylonitrile (SAN) Transparent



TBS OPzS

STANDALONE CELLS-

CELL NOMENCLATURE	RATED CAPACITY (AH) @C10	L (mm) (± 5) Total	W (mm) (± 5) Total	H (mm) (± 20) Max.	STARTING CURRENT (A)	FINISHING CURRENT (A)
ETB40S	40AH	206	103	430	4.8	2.4
ETB60S	60AH	206	103	430	7.2	3.6
ETB80S	80AH	206	103	430	9.6	4.8
ETB100S	100AH	206	103	430	12	6
ETB120S	120AH	206	103	430	14.4	7.2
ETB150S	150AH	206	103	430	18	9
ETB180S	180AH	206	103	430	21.6	10.8
ETB200S	200AH	206	103	430	24	12
ETB250S	250AH	206	124	430	30	15
ETB300S	300AH	206	145	430	36	18
ETB350S	350AH	206	124	546	42	21
ETB400S	400AH	206	145	546	48	24
ETB420S	420AH	206	145	546	50.4	25.2
ETB490S	490AH	206	166	546	58.8	29.4
ETB500S	500AH	206	145	721	60	30
ETB600S	600AH	206	145	721	72	36
ETB800S	800AH	210	191	721	96	48
ETB1000S	1000AH	210	233	721	120	60
ETB1100S	1100AH	210	275	721	132	66
ETB1200S	1200AH	210	275	721	144	72
ETB1250S	1250AH	210	275	880	150	75
ETB1300S	1300AH	210	275	880	156	78
ETB1400S	1400AH	210	275	880	168	84
ETB1500S	1500AH	210	275	880	180	90
ETB1600S	1600AH	210	399	850	192	96
ETB1750S	1750AH	210	399	850	210	105
ETB1900S	1900AH	210	399	850	228	114
ETB2000S	2000AH	210	399	850	240	120
ETB2500S	2500AH	212	487	850	300	150
ETB3000S	3000AH	212	576	850	360	180



NDP PPCP/HR

STANDALONE CELLS-

CELL NOMENCLATURE	RATED CAPACITY (AH) @C10	CONTAINER TYPE	L (mm) (± 5) Total	W (mm) (± 5) Total	H (mm) (± 10) Max.	STARTING CURRENT (A)	FINISHING CURRENT (A)
ETT40H	40AH	HR	167	95	270	2	4
ETT40P	40AH	PPCP	161	106	340	2	4
ETT80H	80AH	HR	169	112	355	4	8
ETT80P	80AH	PPCP	161	106	370	4	8
ETT100H	100AH	HR	169	112	355	5	10
ETT100P	100AH	PPCP	161	106	370	5	10
ETT120H	120AH	HR	172	143	360	6	12
ETT120P	120AH	PPCP	161	106	370	6	12
ETT150H	150AH	HR	214	185	460	7.5	15
ETT150P	150AH	PPCP	161	106	370	7.5	15
ETT200H	200AH	HR	214	185	460	15	20
ETT200P	200AH	PPCP	261	168	345	15	20
ETT250H	250AH	HR	214	185	460	12.5	25
ETT250P	250AH	PPCP	261	168	520	12.5	25
ETT300H	300AH	HR	259	208	420	15	30
ETT300P	300AH	PPCP	261	168	520	15	30
ETT400H	400AH	HR	259	208	420	20	40
ETT400P	400AH	PPCP	261	168	520	20	40
ETT500H	500AH	HR	259	208	478	25	50
ETT500P	500AH	PPCP	255	185	490	25	50
ETT600H	600AH	HR	259	208	478	30	60
ETT600P	600AH	PPCP	255	185	490	30	60
ETT700H	700AH	HR	259	208	478	35	70
ETT700P	700AH	PPCP	255	185	490	35	70
ETT800H	800AH	HR	400	192	500	40	80
ETT800P	800AH	PPCP	403	191	515	40	80
ETT900P	900AH	PPCP	403	191	515	45	90
ETT1000P	1000AH	PPCP	403	191	515	50	100

Nominal Cell Voltage - 2.2 Volts

Container MOC:

PPCP - Polypropylene Copolymer

HR - Hard Rubber



**To be the world's most trusted energy
solutions company, shaping smarter
energy with intelligence, innovation,
and excellence.**



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