



## GERMANY TECHNOLOGY

# 8 OPzV 800

(2V-840AH @ C10)

### Specifications

- ◆ 20 years design life @ 25°C(77°F);
- ◆ Extraordinary energy-saving features in addition with robust reliability
- ◆ Maintenance-free (no topping up) during the whole service life
- ◆ Nominal capacity 100~3000 Ah C10
- ◆ Container material: ABS, UL 94-HB; Optional: UL 94V-0
- ◆ Robust tubular plate technology
- ◆ Very low gassing due to internal gas recombination
- ◆ Up to 24 months shelf life due to low self-discharge rate (less than 2%/month at 25°C )
- ◆ The active material is manufactured from best purity lead (99.994%) to minimize the negative effects of impurities
- ◆ Proof against deep discharge according to DIN 43539 T5
- ◆ Cells in compliance with DIN 40742 Completely recyclable

### Applications

- ◆ Telecommunications
- ◆ Microwave radio systems
- ◆ Power generation plants
- ◆ Emergency lighting
- ◆ Photovoltaic / Solar

# HIGH PERFORMANCE

### Innovative Features

- ◆ **Tubular positive plates:** Robust tubular plates consisting of a lead calcium antimony-free alloy, optimized for high corrosion resistances
- ◆ **Pasted negative plates:** Grid plate construction consisting of lead calcium alloy
- ◆ **Separators:** Micro porous and robust, for electrical separation of the positive and negative plates and optimized for low internal resistance
- ◆ **Housing:** ABS, on request flame retardant ABS according to UL 94 V-0
- ◆ **One way relief valve:** operates at low pressure and fitted with flame arrestor, release gas in case of excess pressure and protects the cell against atmosphere
- ◆ **Poles:** Screw connection for easy and safe assembly and maintenance-free connection with excellent conductivity
- ◆ **Post seals:** extremely high integrity post seal design to prevent electrolyte leakage and terminal corrosion
- ◆ **Connectors:** flexible fully insulated cable connectors screwed to the terminal with an insulated screw having a probe hole on the top for electrical measurement
- ◆ **Electrolyte:** Gel structure
- ◆ Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.



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#### Headquarter:

**Shenzhen EverExceed Industrial Co., Ltd**

📍 Floor 19, Kechuang Building Hengchangrong High TechPark,  
Dezheng Road, Shiyao Bao'an District, Shenzhen.

🌐 [www.everexceed.com](http://www.everexceed.com)

✉ [marketing@everexceed.com](mailto:marketing@everexceed.com)

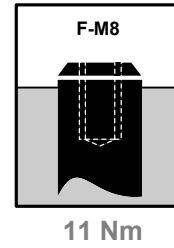
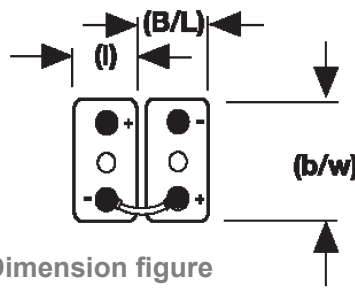
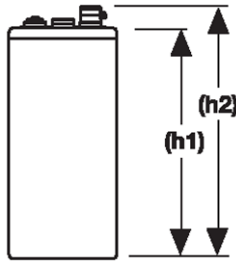
#### Branch Company:

**EverExceed International Company Limited (HK)**

📍 19H Maxgrand Plaza No3 Tai Yau St San PO Kong KLN Hongkong  
✉ [info@everexceed.com](mailto:info@everexceed.com)

**EverExceed Corporation Ltd. ( UK )**

📍 Unit G25 WaterFront Studios, 1 Dock Road, London, United Kingdom  
✉ [Europe@everexceed.com](mailto:Europe@everexceed.com)



Dimension figure

Container: ABS, UL 94-HB Optional ABS, UL 94V-0

## Tubular OPzV Range Electrical Specifications & Dimensions

Part number	DIN Type	Nom. Voltage (V)	C10 AH to 1.80VPC	C100 AH to 1.80VPC	Outline Dimensions (mm)					Weight (kg)	Pole Pairs	Internal Resist (mΩ)	Short Circuit Current (A)	Terminal
					Length (l)	Width (b/w)	Height (h1)	Height (h2)	Installed Length (B/L)					
2TV080800	8 OPzV 800	2	840	1026	210	191	646	681	220	58.5	2	0.33	6820	F-M8

Acid density  $\rho = 1.260 \text{ kg/l}$

## Tubular OPzV Range Discharge Data Amperes at 25°C

End Point Volts/Cell	Discharge Time in Minutes		Discharge Time in hours									
	15 min	30 min	1 hour	2 hour	3 hour	4 hour	5 hour	6 hour	8 hour	10 hour	20 hour	
1.90	437	412	328	231	181	151	130	112	90.3	75.1	37.5	
1.87	504	462	361	248	192	160	137	119	94.1	78.2	41.0	
1.85	622	529	403	269	204	168	143	123	98.7	81.9	42.9	
1.80	689	588	437	279	210	172	146	126	101	84.0	44.4	
1.75	790	655	470	292	218	176	148	129	102	85.1	45.8	
1.70	890	722	491	300	223	177	149	130	102	86.1	47.3	

## Tubular OPzV Range Discharge Data Watts at 25°C

End Point Volts/Cell	Discharge Time in Minutes		Discharge Time in hours									
	15 min	30 min	1 hour	2 hour	3 hour	4 hour	5 hour	6 hour	8 hour	10 hour	20 hour	
1.90	625	590	546	420	345	292	251	221	183	158	74.5	
1.87	773	738	622	474	386	323	278	245	200	172	81.5	
1.85	1047	928	767	560	445	364	310	272	217	186	84.5	
1.80	1079	957	791	576	459	376	319	280	224	191	86.8	
1.75	1244	1082	896	625	487	399	333	289	228	193	89.6	
1.70	1390	1194	962	656	494	399	333	289	228	193	91.8	

## Long Duration Discharge Capacity (Ah) at 25°C

Part No.	DIN Type	End Point Volts/Cell	C <sub>24</sub>	C <sub>48</sub>	C <sub>100</sub>	C <sub>120</sub>	C <sub>240</sub>
2TV080800	8 OPzV 800	1.85	890	1000	1016	1037	1055
		1.80	899	1010	1026	1047	1066

Actual battery performance data may be +/-5% of figures shown above.



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[Europe@everexceed.com](mailto:Europe@everexceed.com)