



**GERMANY TECHNOLOGY**

**16 OPzV 2000**  
(2V-2100AH @ 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.



EverExceed | Empower, Energize, Exceed  
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[www.exerexceed.com](http://www.exerexceed.com)



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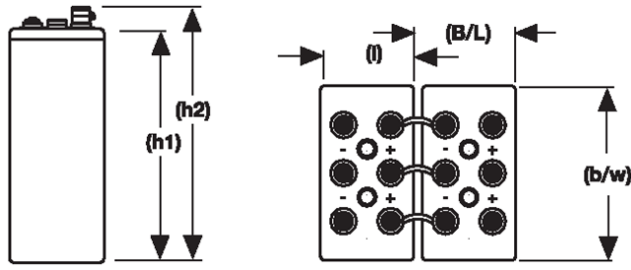
**Branch Company:**

**EverExceed International Company Limited (HK)**

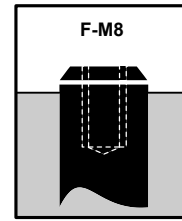
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Dimension figure



11 Nm

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)					
2TV162000	16 OPzV 2000	2	2100	2519	210	399	772	807	223	139	3	0.29	14000	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	893	840	731	546	431	349	296	260	215	179	93.9
1.87	1092	1008	832	605	476	383	327	286	229	190	101
1.85	1277	1176	949	672	521	420	355	307	240	202	105
1.80	1411	1294	1033	710	546	439	368	318	251	210	108
1.75	1680	1478	1155	756	571	457	381	328	258	214	111
1.70	1915	1630	1226	794	588	469	391	335	260	215	115

## 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	1269	1224	1168	917	761	652	567	500	412	355	186
1.87	1567	1533	1344	1042	857	722	625	550	447	385	202
1.85	2135	1971	1674	1254	1008	831	704	620	497	417	210
1.80	2201	2032	1725	1293	1040	856	726	638	512	429	216
1.75	2576	2315	1927	1435	1125	904	752	651	512	429	219
1.70	2896	2575	2163	1530	1130	904	752	651	512	429	225

## 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>
2TV162000	16 OPzV 2000	1.85	2185	2440	2494	2545	2588
		1.80	2207	2464	2519	2570	2614

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



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