



## GERMANY TECHNOLOGY

# 12 OPzV 1200

(2V-1260AH @ 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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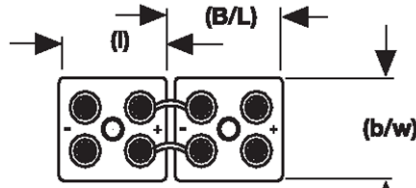
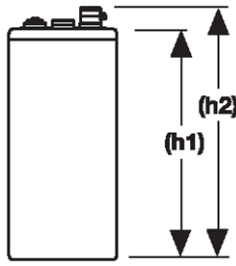
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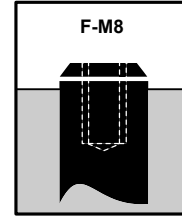
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Dimension figure



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)					
2TV121200	12 OPzV 1200	2	1260	1540	210	275	646	681	220	83.5	2	0.30	9850	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	655	617	491	347	271	227	194	168	135	112	56.2	
1.87	756	693	542	372	288	239	205	179	141	118	61.1	
1.85	932	794	605	403	307	252	213	185	147	123	64.2	
1.80	1033	882	655	419	315	257	217	189	151	126	66.5	
1.75	1184	983	706	438	328	265	222	194	153	127	68.5	
1.70	1336	1084	738	450	334	267	224	194	154	128	71.2	

## 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	936	885	819	630	518	438	377	334	274	236	113	
1.87	1159	1107	932	711	581	486	417	366	298	257	123	
1.85	1571	1391	1149	838	668	547	463	406	326	279	128	
1.80	1619	1434	1184	864	689	564	478	419	336	259	131	
1.75	1865	1623	1342	939	729	596	499	433	342	290	134	
1.70	2083	1790	1442	985	741	596	499	433	342	290	138	

## 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>
2TV121200	12 OPzV 1200	1.85	1333	1500	1525	1556	1582
		1.80	1346	1515	1540	1572	1598

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



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