Tubular OPzV Range

EverExceed®
power your applications

HIGH PERFORMANCE

GERMANY TECHNOLOGY

10 OPzV 700

(2V-735AH @ C10)

Specifications

- Extraordinary energy-saving features in addition with robust reliability
- Maintenance-free (no topping up) during the whole service life
- Nominal capacity 100~3000 Ah C_{10}
- Design life: 20 years at 20°C(80% remaining capacity from C_{10})
- Container material: ABS, UL 94-HB; optional: ABS, UL 94V-0
- Robust tubular plate technology
- Very low gassing due to internal gas recombination
- Long shelf life of up to 2 years at 20°C without recharge due to the very low self discharge rate
- Proof against deep discharge according to DIN 43 539 T5
- Cells in compliance with DIN 40742 Completely recyclable

Applications

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

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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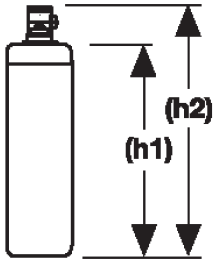
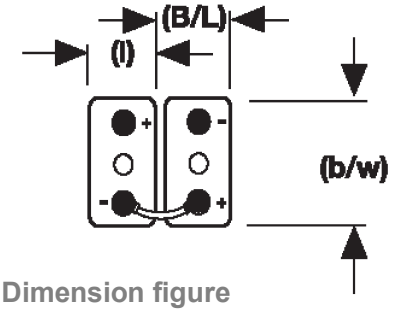
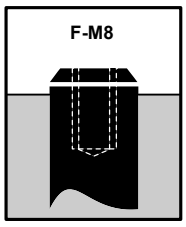




Dimension figure



20 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. acc. to IEC 896-2 mOhms	Short Circuit Current acc. to IEC 896-2A	Terminal
					Length (l)	Width (b/w)	Height (h1)	Height t (h2)	Installed Length (B/L)					
2TV100700	10 OPzV 700	2	735	907	210	254	471	506	235	57.0	1	0.35	5500	F-M8

Acid density d_N = 1.260 kg/l

Tubular OPzV Range Discharge Data Amperes at 20°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	382	360	287	203	158	132	113	100	78.8	65.6	33.6
1.87	441	404	316	217	168	140	120	104	82.4	68.3	36.8
1.85	544	463	353	235	177	147	125	108	86.1	71.9	37.9
1.80	603	515	382	244	184	150	127	110	88.2	73.5	39.0
1.75	691	573	404	255	191	154	129	113	89.8	74.6	40.3
1.70	779	632	431	263	195	155	130	113	89.8	75.6	41.5

Tubular OPzV Range Discharge Data Watts at 20°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	538	509	470	362	298	251	218	192	159	149	66.2
1.87	667	636	536	410	335	278	242	212	173	148	72.9
1.85	903	799	662	482	384	315	268	235	189	161	74.9
1.80	931	824	681	497	396	324	276	243	195	166	76.3
1.75	1072	932	772	539	419	343	288	250	197	167	78.7
1.70	1198	1029	830	566	426	343	288	250	197	167	80.2

Long Duration Discharge Capacity (Ah) at 20°C

Part No.	DIN Type	End Point Volts/Cell	C_{24}	C_{48}	C_{100}	C_{120}	C_{240}
2TV100700	10 OPzV 700	1.85	786	875	898	916	932
		1.80	794	884	907	925	941

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