Tubular OPzV Range

EverExceed®
power your applications

HIGH PERFORMANCE

GERMANY TECHNOLOGY

12 OPzV 1500

(2V-1580AH @ 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
Microwave radio systems
Photovoltaics / Solar
Emergency lighting
Power generation plants

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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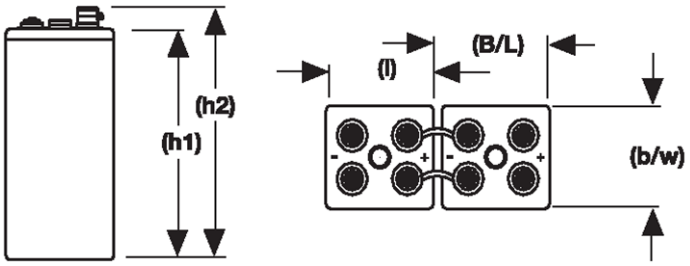
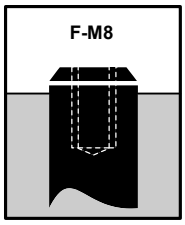


Dimension figure



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)					
2TV121500	12 OPzV 1500	2	1580	1959	212	277	800	838	220	115	2	0.19	10500	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	667	630	548	410	323	261	223	196	162	134	68.5
1.87	830	756	624	454	357	288	245	214	171	143	75.2
1.83	958	882	712	504	391	315	267	230	181	151	78.9
1.80	1058	970	775	532	410	330	276	238	189	158	81.0
1.75	1260	1109	866	567	423	342	286	246	194	161	83.5
1.70	1436	1222	920	595	441	352	293	251	195	162	86.6

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	951	920	877	688	572	489	425	375	309	267	139
1.87	1175	1150	1008	781	643	543	469	413	336	289	151
1.83	1600	1477	1255	941	756	624	528	465	374	312	158
1.80	1650	1523	1294	970	779	643	545	480	385	321	163
1.75	1932	1736	1445	1076	843	677	564	489	385	321	166
1.70	2172	1931	1623	1147	848	677	564	489	385	321	171

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}
2TV121500	12 OPzV 1500	1.85	1639	1830	1940	1980	1941
		1.80	1655	1848	1959	2000	1960

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