



GERMANY TECHNOLOGY

6 OPzV 300

(2V-315AH @ 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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the Energy you Expect forever

www.exerexceed.com



Headquarter:

Shenzhen EverExceed Industrial Co., Ltd

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

🌐 www.everexceed.com

✉ marketing@everexceed.com

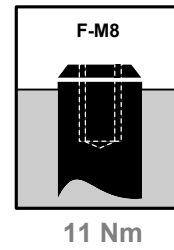
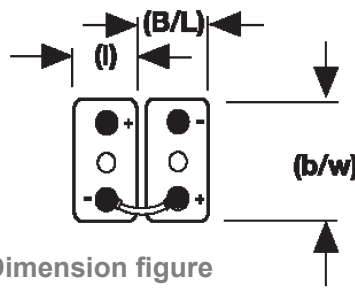
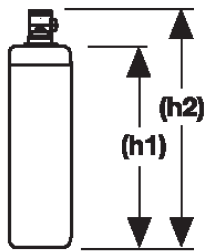
Branch Company:

EverExceed International Company Limited (HK)

📍 19H Maxgrand Plaza No3 Tai Yau St San PO Kong KLN Hongkong
✉ info@everexceed.com

EverExceed Corporation Ltd. (UK)

📍 Unit G25 WaterFront Studios, 1 Dock Road, London, United Kingdom
✉ 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)					
2TV060300	6 OPzV 300	2	315	388	145	206	355	390	155	24.5	1	0.45	3420	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	218	189	139	86.6	66.2	54.6	47	43.1	32.6	27.8	14.3
1.87	257	208	150	103	79.8	60.9	54	45.2	37.8	31.5	15.5
1.85	293	230	155	97.7	73.7	59.9	51.5	45.2	36.2	30.5	16.2
1.80	318	242	161	100	78.8	61.7	52.3	45.7	36.5	31.5	16.8
1.75	358	259	165	103	78.8	63.0	53.6	46.6	37.8	31.5	17.7
1.70	394	271	174	106	78.8	63.6	53.6	46.7	37.8	32.0	18.5

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	329	299	238	168	131	107	91.4	79.8	65.1	55.7	28.8
1.87	405	352	269	186	142	119	99.8	87.2	70.4	59.9	30.6
1.85	526	427	320	209	160	130	110	95.6	76.7	64.1	31.9
1.80	542	441	330	215	165	134	113	98.7	78.8	66.2	32.5
1.75	614	487	357	228	170	138	114	99.8	78.8	66.2	33.2
1.70	680	522	372	230	170	138	114	99.8	78.8	66.2	34.1

Long Duration Discharge Capacity (Ah) at 25°C

Part No.	DIN Type	End Point Volts/Cell	C ₂₄	C ₄₈	C ₁₀₀	C ₁₂₀	C ₂₄₀
2TV060300	6 OPzV 300	1.85	337	375	384	392	399
		1.80	340	379	388	396	403

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



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