



GERMANY TECHNOLOGY

7 OPzV 490

(2V-525AH @ 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
the Energy you Expect forever

www.exerexceed.com



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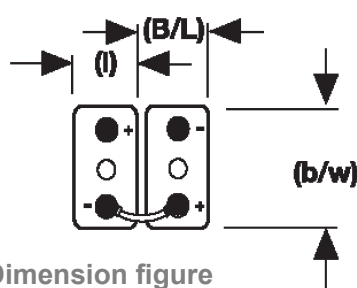
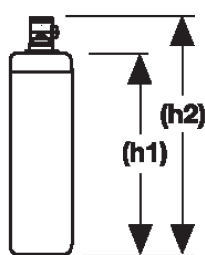
Branch Company:

EverExceed International Company Limited (HK)

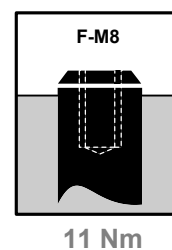
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Dimension figure



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)					
2TV070490	7 OPzV 490	2	525	635	166	206	471	506	176	35.5	1	0.37	4100	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	307	287	213	144	111	92	78.2	71.4	57.8	48.3	24.1
1.87	368	318	249	167	127	104	89.3	78.2	63.8	46.2	25.3
1.85	426	359	257	167	125	103	88.2	77.2	62.5	52.2	26.6
1.80	470	390	272	172	129	106	90.8	78.6	63.5	52.5	27.5
1.75	541	426	288	180	133	109	92.6	80.9	64.7	54.4	28.6
1.70	601	459	297	184	135	110	94.5	80.9	65.1	54.6	29.6

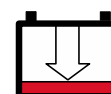
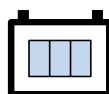
Tubular OPzV Range Discharge Data Watts at 25°C

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	437	413	370	268	209	174	150	132	109	93.5	46.5
1.87	545	516	418	296	232	193	166	145	118	102	50.1
1.85	744	639	501	340	267	218	184	161	128	107	52.5
1.80	768	659	517	351	275	225	189	166	132	110	53.4
1.75	875	733	574	376	288	233	194	168	132	110	54.5
1.70	964	794	602	387	288	233	194	168	132	110	55.6

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
2TV070490	7 OPzV 490	1.85	552	613	629	642	653
		1.80	558	619	635	648	660

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


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