

EverExceed®
power your applications

Tubular OPzV Range



GERMANY TECHNOLOGY

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 C10

Design life: 20 years at 20°C (80% remaining capacity from C10)

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

Applicable Operating temperature range:
-40°C (-40°F) to +70°C (+158°F)

Ideal Operating temperature range:
+20°C (+68°F) to +35°C (+95°F)

Storage time from a fully charged condition:
24 months at 20°C / 68°F.

For each 9°C / 15°F rise,
reduce the storage time by half.

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 arrester, 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.

Applications

Telecommunications

Microwave radio systems

Photovoltaics / Solar

Emergency lighting

Power generation plants

Standard and Compliance

DIN 40742

DIN 43539-T5

YD/T 1360-2005

IEC 60896-21/22-2004

IEC 61427-2005

Eurobat Guide - "long life"



01

www.everexceed.com

Copyright © EverExceed Corporation. All rights reserved.

مبيعات تعمير / عدن 776222522
مبيعات صنعا / الحديدة 776222922

صنعا - شارع الجزائر - تقاطع الدائري - 01/446460 - 01/446461
تعمير - الحصن - أسفل جامع الشيباني 04/248044



Noor.shaiban



Noorshaiban@sheibanigroup.com
eng.sameh@sheibanigroup.com



WWW.Noorshaiban.com

نور شيبان
Noor Shaiban
لأنظمة الطاقة الشمسية
For Solar System Applications

Tubular OPzV Range

EverExceed®
power your applications

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)				Installed Length (B/L)	Weight (kg)	Pole Pairs	Internal Resist. acc. to IEC 896-2 miliohm	Short Circuit Current acc. to IEC 896-2 A	Terminal
					Length (l)	Width (b/w)	Height (h1)	Height t (h2)						
2TV020100	2 OPzV 100	2	105	130	103	206	354	386	111	12.5	1	0.98	1590	F-M8
2TV030150	3 OPzV 150	2	158	195	103	206	354	386	111	14.5	1	0.95	1676	F-M8
2TV040200	4 OPzV 200	2	210	260	105	208	360	398	113	19.0	1	0.94	2235	F-M8
2TV050250	5 OPzV 250	2	263	324	126	208	360	398	134	23.0	1	0.78	2710	F-M8
2TV060300	6 OPzV 300	2	315	388	147	208	360	398	155	28.0	1	0.60	3420	F-M8
2TV050350	5 OPzV 350	2	383	452	126	208	475	513	134	29.0	1	0.61	3450	F-M8
2TV060420	6 OPzV 420	2	446	544	147	208	475	513	155	35.0	1	0.49	4220	F-M8
2TV070490	7 OPzV 490	2	525	635	168	208	475	513	176	40.0	1	0.45	4100	F-M8
2TV060600	6 OPzV 600	2	630	777	147	208	650	688	155	48.0	1	0.44	4750	F-M8
2TV100700	10 OPzV 700	2	735	907	227	208	475	513	235	57.0	1	0.38	5500	F-M8
2TV080800	8 OPzV 800	2	840	1026	212	193	650	688	220	65.0	2	0.30	6820	F-M8
2TV101000	10 OPzV 1000	2	1050	1283	212	235	650	688	220	80.0	2	0.25	8200	F-M8
2TV121200	12 OPzV 1200	2	1260	1540	212	277	650	688	220	92.0	2	0.21	9850	F-M8
2TV121500	12 OPzV 1500	2	1580	1959	212	277	800	838	220	115	2	0.19	10500	F-M8
2TV162000	16 OPzV 2000	2	2100	2519	212	400	775	815	223	155	3	0.15	14000	F-M8
2TV202500	20 OPzV 2500	2	2630	3148	212	490	775	815	223	192	4	0.12	17500	F-M8
2TV243000	24 OPzV 3000	2	3150	3778	212	580	775	815	223	230	4	0.10	21000	F-M8

Standards: INTERNATIONAL STANDARD—ISO9001:2008

Stationary Lead Acid Batteries

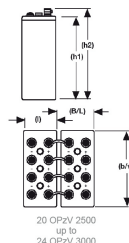
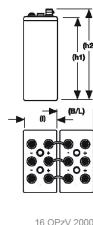
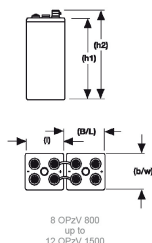
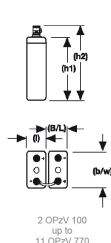
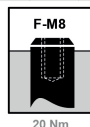
DIN40736, IEC60896-21/22 Valve Regulated Types

Electromagnetic Compatibility (EMC) CE:EN61000-6-2:2005, EN61000-6-3:2007

Container and Cover:

ABS, UL 94-HB
Optional ABS, UL 94V-0

Safety Vent Cell: Accurate Valve



02

Copyright © EverExceed Corporation. All rights reserved.

www.everexceed.com

مبيعات تعمير / عدن 776222522
مبيعات صنعاء / الحديدة 776222922

صنعاء - شارع الجزائر - تقاطع الدائري - 01/446461 - 01/446460
تعز - الحصن - أسفل جامع الشيباني 04/248044



Noor.sheiban



Noorshaiban@sheibanigroup.com
eng.sameh@sheibanigroup.com



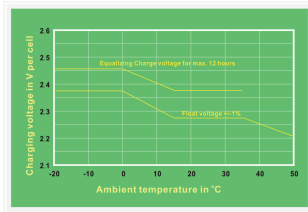
WWW.Noorshaiban.com

نور شيبان
Noor Shaiban
النظم الطاقة الشمسية
For Solar System Applications

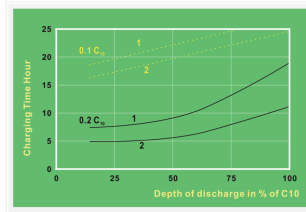
Tubular OPzV Range

EverExceed®
power your applications

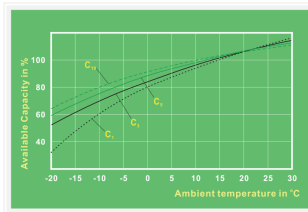
Technical data curves



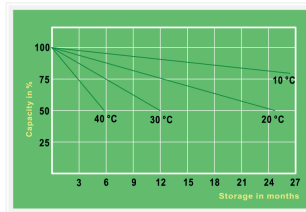
For continuous charging we recommend a voltage of 2.25 V.
The charging voltage must be compensated to the curve for a continuously different battery ambient temperature.



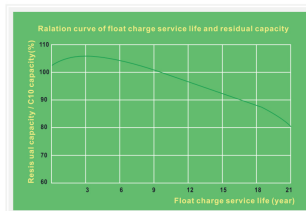
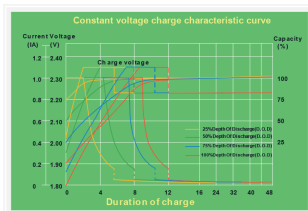
Recharging time in relation to the initial charging current at 20°C.
--- State of charge 100 % — State of charge 90 %
Charge voltage: 1: 2.25 V/C 2: 2.40 V/C



Available capacity in relation to ambient temperature



Self-discharge in relation to the storage temperature



10

Copyright © EverExceed Corporation. All rights reserved.

www.everexceed.com

مبيعات تعمز / عدن 776222522
مبيعات صنعاء / الحديدة 776222922

صنعاء - شارع الجزائر - تقاطع الدائري - 01/446461 - 01/446460
تعمز - الحصن - أسفل جامع الشيباني 04/248044



Noor.shaiban



Noorshaiban@shelbanigroup.com
eng.sameh@shelbanigroup.com

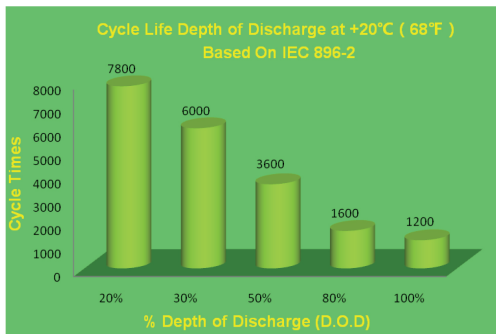


www.Noorshaiban.com

نور شيبان
Noor Shaiban
لأنظمة الطاقة الشمسية
For Solar System Applications

EverExceed®
power your applications

Tubular OPzV Range



BATTERY CYCLING ABILITY
The EverExceed's Tubular OPzV Range Battery excels in cycling applications. This Range are capable of 6800+ charge / discharge cycles depending on the depth of discharge.

TYPICAL CYCLIC PERFORMANCE	
CAPACITY WITHDRAWN	CYCLES
100%	1200
80%	1600
50%	3600
30%	6000
20%	7800

3500 cycles to 50% DoD and 5600 to over 30% DoD



11

www.everexceed.com

Copyright © EverExceed Corporation. All rights reserved.

مبيعات تعمير / عدن 776222522
مبيعات صنعا / الحديدة 776222922

صنعا - شارع الجزائر - تقاطع الدائري - 01/446461 - 01/446460
تعمير - الحصن - أسفل جامع الشيباني 04/248044



Noor.sheiban



Noorshaiban@sheibanigroup.com
eng.sameh@sheibanigroup.com



WWW.Noorshaiban.com

نور شيبان
Noor Shaiban
لأنظمة الطاقة الشمسية
For Solar System Applications