

UP-TFS250-12



Product design features

- 12+ years design life, EUROBAT specification Long Life
- Extremely high cyclic life and float life performance
- Low self discharge rates
- Low internal resistance
- Wide range of operating temperature -20°C to +55°C
- Compact design with high energy density
- ETSI Rack integration
- One-way valve regulated system with flame-arrestor
- Internal gas recombination efficiency 98% - 99%
- Low installation cost, maintenance free product
- Delivered ready for use
- Shock resistant ABS flame retardant container and lid
- Sealed for leak-free operation, inline automatic tested
- Female M8 brass terminals with no need for retightening
- Non-hazardous cargo for ground, sea and air transport
- Fully recyclable product

Mechanical Characteristics

	SI Units	US Units
Length	555 mm	21.8 inches
Width	125 mm	4.9 inches
Height	320 mm	12.6 inches
Typical Weight	59.2 kg	130.5 lbs
Terminal Torque	8.0 Nm	70.8 in.lbs

All batteries are fully compliant
with IEC 60 896 - 21/22,
EN 60 896 - part 2, BS 6290 - part 4

Electrical Characteristics

Nominal voltage	12 Volts
10 hour capacity to 1.80 Vpc	190.0 Ah
100 h capacity to 1.80 Vpc	250 Ah
Float voltage	2.27-2.29 Vpc at 20°C, 2.40 Vpc at 20°C
Accelerated recharge	According to operational instructions
Shelf life	Up to 1 year
Short circuit current	3165 Amps
Internal resistance	3.95 mΩ

Discharge performance at constant current discharge (A) at 25°C

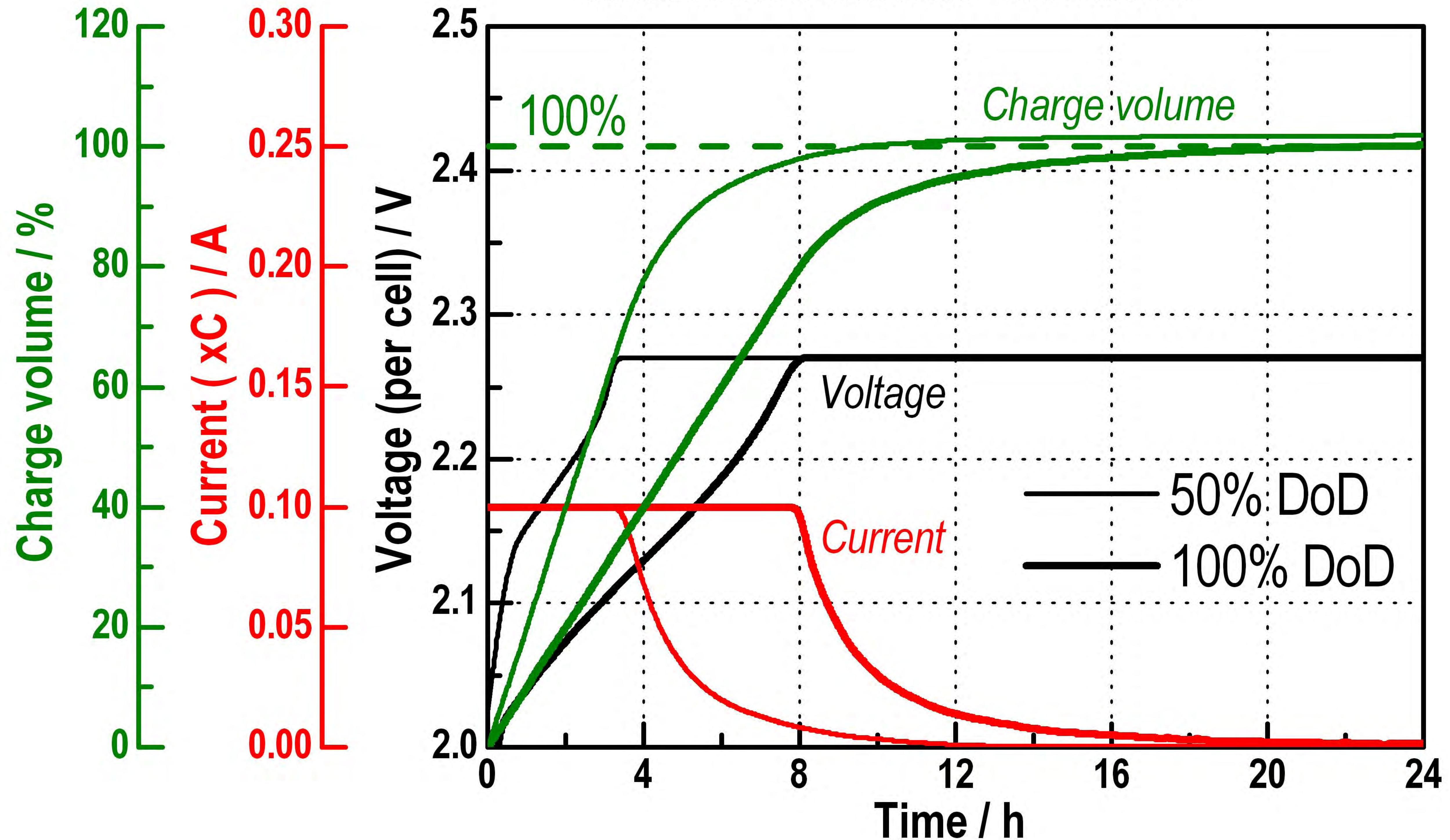
Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	545	339	223	129	76.0	52.4	41.4	34.4	29.9	23.9	19.4	10.4
1.65	537	328	219	127	75.6	51.2	41.3	34.3	29.8	23.8	19.3	10.3
1.70	497	316	212	124	75.2	51.0	41.2	34.2	29.7	23.5	19.2	10.2
1.75	442	298	201	122	74.6	50.8	40.7	34.0	29.6	23.4	19.1	10.1
1.80	382	278	174	116	73.9	50.3	40.2	33.6	29.4	22.9	19.0	10.0
1.85	336	245	167	109	72.7	49.4	39.5	32.9	28.8	22.6	18.7	9.8

Discharge performance at constant power discharge (W per cell) at 25°C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	949	590	387	241	135.6	101.9	79.2	66.8	56.9	46.1	37.5	20.5
1.65	934	570	381	235	135.0	99.5	79.1	66.7	56.6	45.8	37.2	20.2
1.70	864	550	369	230	134.2	98.4	78.8	66.5	56.6	45.4	37.0	20.0
1.75	769	519	348	227	133.3	98.2	78.0	66.1	56.5	44.8	36.6	19.8
1.80	665	484	303	216	131.9	95.8	77.5	65.3	56.1	44.1	36.5	19.6
1.85	582	426	290	203	129.5	96.1	75.5	63.9	54.8	44.0	36.2	19.5

Charge characteristics

Charge with Constant Voltage - 2.27 V (per cell at 25°C)
and Limited Current - 0.10 xC A



Charge characteristics

Charge with Constant Voltage - 2.40 V (per cell at 25°C)
and Limited Current - $0.10 \times C_{10}$ A

