

UP-TFH150-12



Product design features

- Excellent high temperature performance / normal operating temperature +35°C /
- Operating temperature range -20°C to +65°C
- Good float life performance and extremely high cyclic life
- Suitable for hybrid systems with solar and wind power
- One-way valve regulated system with flame-arrestor
- Internal gas recombination efficiency 98% - 99%
- Shock resistant ABS flame retardant container and lid
- Three-layer terminal sealing for leak-free operation
- 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	52.8 kg	116.4 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	152.0 Ah
Charge current limitation	0.25 C10
Float charge voltage and temperature compensation	2.21 – 2.22 V per cell at 35°C - 3 mV / °C per cell
Boost charge voltage and temperature compensation	2.3 V per cell at 35°C - 5 mV / °C per cell
Shelf life	Up to 1 year
Short circuit current	2565 Amps
Internal resistance	4.85 mΩ

Discharge performance at constant current discharge (A) at 35 °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	475	267	163	107	59.4	43.8	35.1	29.2	24.7	19.0	15.7	8.34
1.65	449	258	159	105	58.3	43.3	34.7	29.1	24.6	18.9	15.6	8.23
1.70	418	248	155	103	57.2	42.5	34.3	28.9	24.2	18.7	15.4	8.15
1.75	371	236	152	99	56.4	42.1	34.1	28.5	24.1	18.6	15.3	8.10
1.80	324	218	144	97	55.4	418	33.8	28.3	23.9	18.4	15.2	8.04
1.85	258	195	130	91	53.0	41.3	33.4	27.6	23.4	17.8	14.6	7.80

Discharge performance at constant power discharge (W per cell) at 35 °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	945	580	345	210	114	88.0	72.4	59.0	50.0	37.7	31.2	16.3
1.65	895	560	339	206	112	87.6	72.0	58.8	49.8	37.5	31.0	16.2
1.70	825	535	331	204	111	86.2	71.2	58.7	49.6	37.1	30.9	16.1
1.75	750	503	325	196	109	85.7	70.9	58.2	49.5	36.8	30.7	16.0
1.80	665	463	311	194	108	85.5	70.2	57.3	48.9	36.3	29.9	15.9
1.85	555	409	279	183	104	80.4	69.3	55.7	47.4	35.2	29.3	15.8

