



an EnerSys® company

# AlphaCell® HP

## Broadband and Telecom TPPL Front Terminal Battery



- High power density (4.1 kW at 15min rate)
- 4 to 5 year full warranty
- Superior float life (15 years at 77°F/25°C)
- TPPL technology allows for stable voltage delivery
- UL-94 V0 rated flame retardant case
- 18 month shelf life at 77°F (25°C)
- Manufactured in facilities that are ISO 9001 and 14001 certified

**The AlphaCell® HP TPPL battery is a premium high performance, float service battery suitable for broadband inside plant, telecommunications and high-rate UPS applications.**

The AlphaCell® HP battery is a VRLA-AGM battery utilizing Thin Plate Pure Lead (TPPL) technology that yields advantages such as extended float service life and longer shelf life. Further benefits include fast recharge, high-rate UPS operation and demand response with deep discharge capabilities.

AlphaCell HP front terminal provides optimal back-up runtime for your network power needs with potential future proof of demand response—providing energy security in the harshest of environments.

# AlphaCell® HP Front Terminal Specifications

General Details	
Nominal Voltage:	12V
Capacity 20Hr Rate:	208Ah
Operating Temperature:	-40 to 140°F (-40 to 60°C)
Shelf Life:	18 month shelf life at 77°F (25°C)
Cycle Life:	Up to 400 cycles at 80% depth of discharge
Dimensions H x W x D (in/mm):	12.46 x 4.93 x 20.75 / 316.5 x 125.2 x 527.1
Weight Approximate (lbs/kg):	132.3 / 60
Torque (in-lb/Nm):	44 / 5.0
Internal Resistance*:	3.5mΩ
Short Circuit*:	4000A
Warranty:	4 to 5 year full replacement

\*Tested per IEC 60896 Part 21

Constant Current Discharge Rate in Amps at 77°F (25°C)																
Discharge Time:	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr	24hr
1.50VPC	1009.4	749.4	527.5	411.5	339.3	270.0	197.5	156.3	86.2	60.5	46.5	37.8	25.0	20.3	10.6	8.9
1.67VPC	787.6	640.8	476.6	380.4	318.5	255.4	189.1	150.8	84.2	58.7	45.2	36.9	24.3	19.8	10.4	8.8
1.75VPC	643.1	552.1	424.4	345.8	293.0	238.6	179.1	144.0	81.7	57.4	44.3	36.2	23.9	19.4	10.2	8.6
1.85VPC	462.1	428.1	347.2	291.2	251.5	210.0	161.3	131.6	76.8	54.6	42.5	34.8	23.1	18.8	9.7	8.2

Constant Power Discharge Rate in Watts at 77°F (25°C)																
Discharge Time:	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr	24hr
1.50VPC	9185	7426	5513	4463	3748	3020	2248	1799	1013	718	555	453	300	244	128	108
1.67VPC	7917	6726	5148	4189	3547	2888	2169	1746	993	699	541	442	293	238	125	105
1.75VPC	6737	5965	4694	3875	3313	2730	2073	1679	968	685	531	435	289	235	123	104
1.85VPC	5069	4806	3961	3352	2913	2452	1897	1555	918	656	512	420	280	227	118	99

Constant Power Discharge Rate in Watts/Cell at 77°F (25°C)																
Discharge Time:	2min	5min	10min	15min	20min	30min	45min	1hr	2hr	3hr	4hr	5hr	8hr	10hr	20hr	24hr
1.50VPC:	1530.83	1237.67	918.83	743.83	624.67	503.33	374.67	299.83	168.83	119.67	92.50	75.50	50.00	40.67	21.33	18.00
1.67VPC:	1319.50	1121.00	858.00	698.17	591.17	481.33	361.50	291.00	165.50	116.50	90.17	73.67	48.83	39.67	20.83	17.56
1.75VPC:	1122.83	994.17	782.33	645.83	552.17	455.00	345.50	279.83	161.33	114.17	88.50	72.50	48.17	39.17	20.50	17.28
1.85VPC:	844.83	801.00	660.17	558.67	485.50	408.67	316.17	259.17	153.00	109.33	85.33	70.00	46.67	37.83	19.67	16.57

