

HPS-POWER BATTERY



HPS-45SL

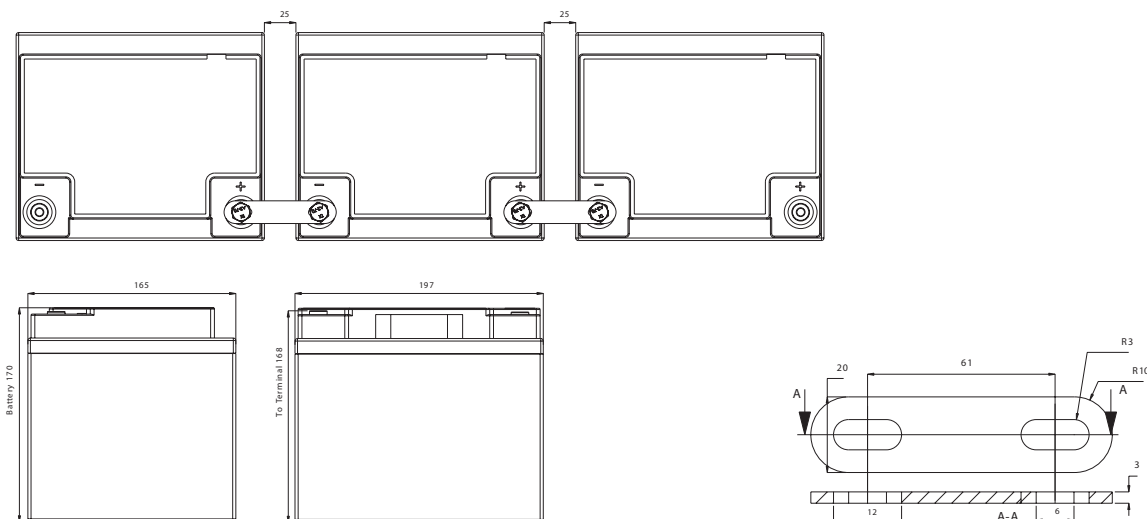
Innovative Features

- Completely maintenance free, sealed construction eliminates the need for watering
- Fully tank formed plates
- Analytical Grade electrolyte
- Spill proof / leak proof
- Valve regulated Max internal pressure 2.5 psi
- Multi-position usage
- ABS Case and cover - V0 on request
- Low self discharge
- FAA and IATA approved as non-hazardous
- Built to comply with IEC 8962, DIN 43534, BS 6290 Pt4, Eurobat

Specifications

- Nominal Voltage12 Volts
- Nominal Capacity44Ah (C20 @ 20 °C)
- Design Life12 Years
- Operating Temperature...-20 °C to 50 °C
- Grid alloyCalcium /Tin lead alloy
- PlatesFlat Pasted
- SeparatorAbsorbant Glass Mat
- Active material.....Very high purity lead
- Case and cover.....ABS (VO on request)
- Charge VoltageFloat 2.25 - 2.30 VPC @25 °C
Cycling 2.35 @25 °C
Max. 2.4 VPC Max ripple 0.05C (A)
- ElectrolyteSulphuric acid Analytical grade purity
- Venting ValveEPDM Rubber 1.5 to 2 psi (10.5 - 14 KPa) release pressure. Resealing at 1 psi (7 KPa)
- Terminal.....Insert 14mm Dia M6 thread. Epoxy sealed by extended mechanical paths
- Torque setting.....The recommended torque value for all types is 5-7 Nm
- CablesConnectors, cables, terminal covers on request.

Terminal Dimensions



Specifications

Nominal Voltage	12V		
Nominal Capacity	44 Ah		
Dimensions	Total Height - (Inc. terminal s)	170 mm - n/a mm	6,69 inches - n/a inches
	Length - Width	197 mm - 165 mm	7,76 inches - 6,50 inches
Weight 13.6 kg - 30,06 lbs			

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Characteristics

Capacity 20 °C (68 °F) To 1.7 volts	20 hour rate 10 hour rate 5 hour rate 1 hour rate 15 min rate Internal Resistance Impedance	41,8 Ah 37,4 Ah 33,0 Ah 28,7 Ah 22,3 Ah 7,5 mOhms S
Capacity correction for Temperature Variations (C20)	40 °C (104 °F) 20 °C (68 °F) 0 °C (32 °F) -15 °C (5 °F)	102% 100% 85% 65%
Self-Discharge 20 °C (68 °F)	Capacity after 1 months storage Capacity after 3 months storage Capacity after 6 months storage	98% 94% 86%
Short Circuit Current 20 °C (68 °F)	1400	
Terminal	Standard Optional	14mm Insert M6 thread Cu/Lead Flag - J Type - Auto
Charging (Constant Voltage)	Cyclic Float	2.35 - 2.40 VPC (20-25 °C) 2.27 - 2.30 VPC (15-25 °C)

Constant Power Discharge - Watts per Cell at 20°C

End V per Cell	5M	10M	15M	20M	25M	30M	35M	40M	45M	60M	90M	2 hr	3 hr	4 hr
1.85	220	176	142	117	100	87.7	78.5	70.8	64.9	52.0	36.7	28.4	19.4	14.7
1.80	234	192	153	125	106	92.2	82.0	73.3	66.7	53.3	37.5	29.2	19.8	15.2
1.75	245	202	160	128	108	94.1	82.8	73.9	67.1	53.3	37.6	29.3	20.0	15.3
1.70	253	206	162	130	109	94.4	83.0	74.2	68.0	54.3	38.1	29.7	20.4	15.6
1.65	257	209	165	131	110	95.0	83.5	75.0	68.5	54.6	38.5	29.8	20.5	-
1.60	265	211	167	132	111	96.0	84.2	76.0	69.0	55.0	38.8	30.0	20.6	-

Constant Amps discharge - Amps at 20°C

End V per Cell	5 M	10 M	15 M	20 M	25 M	30 M	35 M	40 M	45 M	60 M	90 M	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	118	94.4	75.5	62.4	53.2	46.3	41.3	37.2	34.0	27.1	19.0	14.7	9.93	7.50	6.16	4.16	3.49	2.99	1.95
1.80	128	105	83.0	67.3	57.1	49.2	43.6	38.9	35.2	28.0	19.5	15.2	10.2	7.78	6.38	4.31	3.59	3.08	2.02
1.75	135	111	87.2	69.3	58.5	50.5	44.2	39.3	35.6	28.1	19.7	15.3	10.3	7.88	6.45	4.37	3.63	3.11	2.03
1.70	141	114	89.1	71.2	59.3	51.0	44.6	39.7	36.2	28.7	20.0	15.5	10.6	8.03	6.60	4.48	3.74	3.20	2.09
1.65	144	116	90.9	71.8	59.9	51.5	45.0	40.2	36.6	28.9	20.2	15.6	10.6	-	-	-	-	-	-
1.60	149	118	92.4	72.4	60.6	52.1	45.5	40.8	36.9	29.1	20.4	15.7	10.7	-	-	-	-	-	-

Ampere Hour at 20 °C

End V per Cell	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	12 hr	20 hr
1.85	29.3	29.8	30.0	30.8	33.3	34.9	35.9	38.9
1.80	30.3	30.6	31.1	31.9	34.5	35.9	37.0	40.3
1.75	30.5	31.0	31.5	32.2	34.9	36.3	37.3	40.6
1.70	31.0	31.7	32.1	33.0	35.8	37.4	38.4	41.8
1.65	31.2	31.9	-	-	-	-	-	-
1.60	31.4	32.1	-	-	-	-	-	-