



# HIGH POWER SERIES



Valve Regulated Battery Designed for Uninterruptible Power Supply (UPS), Emergency Lighting, Communication, and Other Float Service Applications.

## FEATURES & BENEFITS

- 10 year design life @ 25° C
- Robust Plate for extended service life.
- Low calcium levels to minimize grid growth and extend battery life.
- Computer designed lead, low calcium alloy grid for minimal gassing and ease of recycling.
- Patented flame-arresting one-way pressure-relief vent providing vacuum and controlled backpressure for long life recombinant operation.
- Thermally welded case-to-cover bond to eliminate leakage.
- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance.
- Flame retardant polypropylene case and cover compliant with UL 1778
- UL-recognized component
- Multicell design for economy of installation and maintenance.
- Can be mounted in any orientation. Upright, side or end mounting recommended.
- Not restricted for air transport - Complies with IATA/ICAO Special Provisions A67.
- Not restricted for surface transport - Classified as non-hazardous material as related to DOT-CFR Title 49 parts 171-189.
- Durable polypropylene container and cover.
- Manufactured in accordance to IEC60896 - 21/22" and "Eurobat: High Performance"

## TECHNICAL DATA

Model	Voltage	Watts Per Cell @ 25° C								Dimensions			Weight Kg
		5	10	15	20	30	45	60	90	Length mm	Width mm	Height mm	
		1.67 vpc											
HPS 12-125	12	235	159	125	102	74	55	46	34	198	132	188	12
HPS 12-170	12	280	210	170	140	107	82	66	47	229	139	225	18
HPS 12-250	12	430	315	250	207	161	121	95	65	261	173	224	25
HPS 12-290	12	525	365	285	235	178	136	108	80	318	174	230	30
HPS 12-330	12	565	420	330	275	208	157	123	87	341	173	241	33

**SPECIFICATIONS**

<b>Operating Temperature Range with temperature compensation</b>	Discharge: -40°C to +71°C Charge: -23°C to +60°C
<b>Nominal Operating Temperature Range</b>	+23°C to +27°C
<b>Recommended Maximum Charging Current Limit</b>	C/5 amperes @ 20hr rate
<b>Float Charging Voltage</b>	13.65 ± 1.5 VDC average per 12V unit (6.75 to 6.90 per 6V unit)
<b>Maximum AC Ripple (Charger)</b>	0.5% RMS or 1.5% P-P of float charge voltage recommended for best results.
<b>Self Discharge</b>	Up to 6 months at 25°C and then a freshening charge is required. For higher temps, the time interval will increase. Freshening charge is required. For higher temperatures the time interval will be shorter. For lower temperatures time interval will decrease equalization charge.
<b>Equalize charge and cycle service voltage</b>	14.40 to 14.80 VDC average per 12V unit @ 25°C (7.20 to 7.40 VDC per 6V unit.)
<b>Terminal Hardware Initial Torque</b>	40 in.-lbs. (4.5 N-m) (HPS 12-125, HPS 12-170, HPS 122-250) 65 in.-lbs. (7.35 N-m) (HPS 12-290, HPS 12-330).
<b>Terminal Hardware Annual Retorque</b>	32 in.-lbs. (3.48 N-m) (HPS 12-125, HPS 12-170, HPS 122-250) 52 in.-lbs. (5.88 N-m) (HPS 12-290, HPS 12-330).

**DIMENSIONS**

							Battery Termination		
							HPS12-125	HPS12-170	HPS12-250
	A	B	C	D	E	F			
HPS12-125	198	191	132	128	173	184			
HPS12-170	228	225	139	135	201	225			
HPS12-250	261	258	173	169	200	222			
HPS12-290	318	304	174	169	201	230			
HPS12-330	341	324	173	166	213	241			

\*All dimensions in millimeters. All dimensions are for reference only. Contact a C&D Representative for complete dimension information.