

DATA-SHIELD PURE LEAD VRLA UPS BATTERIES



HBL[®]



Pure Lead VRLA Batteries for UPS

HBL's range of "Data-Shield" high rate batteries are designed to provide the highest discharge rates for critical datacenter/UPS applications. Advances in datacenter technology, high availability of the utility grid and on site generation have all contributed to shorter UPS back-up times. Data-shield has been designed with this in mind. The product delivers industry leading performance at back up times of 10 minutes or less.

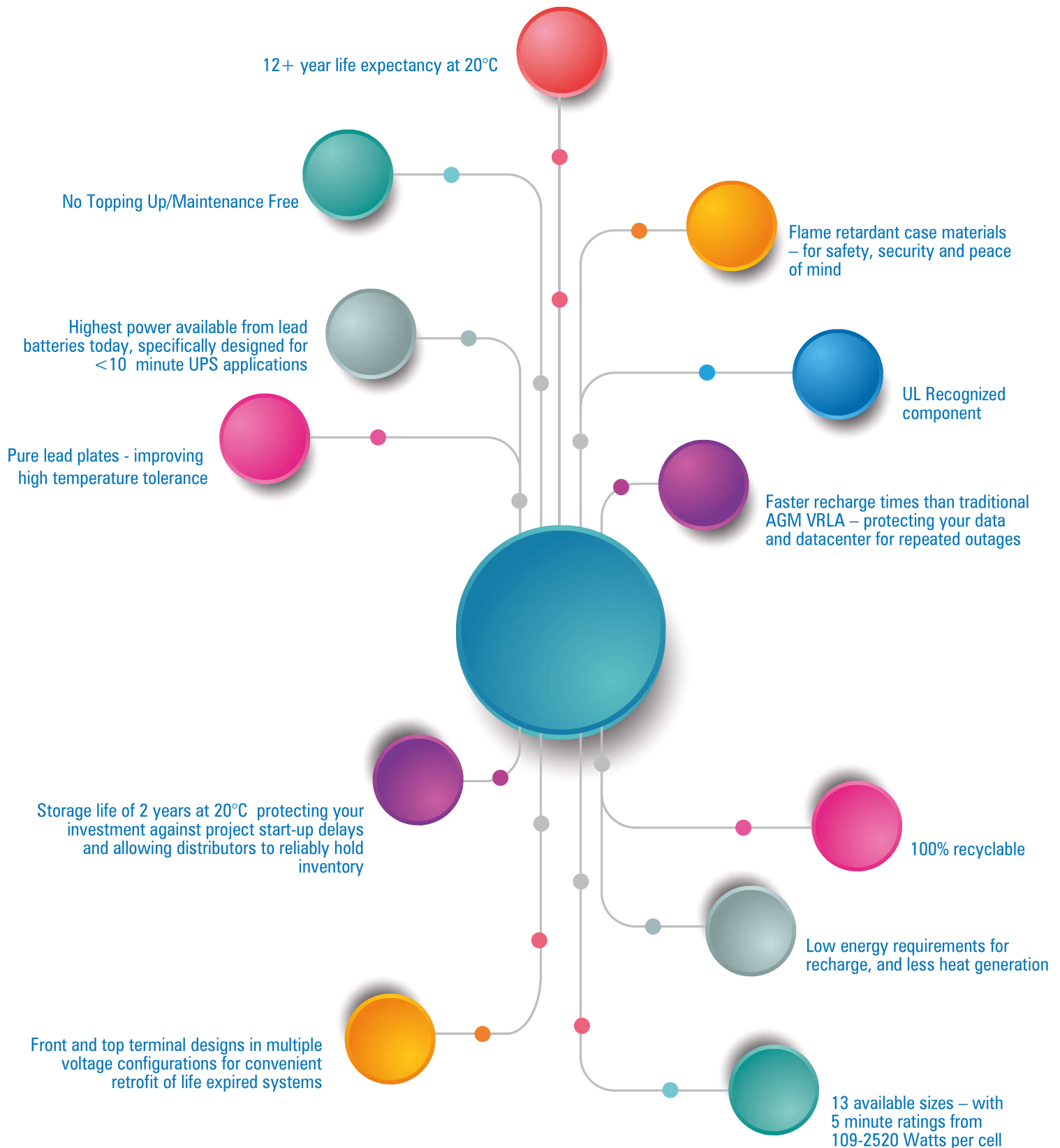
The critical back up time to allow standby generators to start and synchronize is typically less than 5 minutes. Data-shield delivers its optimal performance at these rates. The datacenter designer will reduce the battery footprint, reduce the cost and size of rectifiers, and save money by lowering energy consumption in cooling plants and recharging.

HBL's Data-Shields' electrical and high temperature performance exceeds all normal AGM VRLA products. It offers users a wide, flexible range of capacities – and the choice of top terminal and front terminal designs.

Outstanding design features ensure the total integrity and reliability of UPS installations.

WHEN YOU RELY ON YOUR UPS - RELY ON DATASHIELD.

Features and Benefits



Data-Shield UPS Batteries

PURE LEAD VRLA BATTERIES FOR UPS

CONSTRUCTION

Pure Lead grids with customize active materials for high temp performance. enhanced grid design for high power discharges

Separators – with fully absorbed electrolyte – Pure sulphuric acid with no contaminants

Leak proof post seals with custom welded security

ABS case and lid – UL94 V-0 flame retardant rating

Case-lid heat seal with high integrity bond ensuring no leaks.

High security pressure vents for operational safety

Battery posts with copper inserts to carry high currents of short rate discharges

Shock and vibration resistant designs.

Handles for ease of installation
Maximizing capacity and recombination

OPERATION

Batteries designed for easy mounting on racks or in cabinets

No separate battery room required

Low maintenance, no water additions

Float Voltage 2.27vpc
@25°C/77°F

Datashield batteries should be installed on their base. Special horizontal mount racks can be designed for certain batteries if required.

Widest operating temperature -40°C to +50°C.

Storage life – up to 24 months at 20°C without freshening charge

Inter-block connectors can be supplied to specific layouts and rack configurations

STANDARDS AND QUALITY

Compliant with the requirements of international standard IEC 60896-21/22

HBL sizing program uses IEEE485 methodology

Classified as “Very Long Life” (> 12 years) according to the 2015 Eurobat guide

UL recognised component

Classified as non-spillable and approved as non-hazardous cargo for ground, sea and air transportation in accordance with the requirements of IMDG (International Maritime code for Dangerous Goods) and ICAO (International Civil Aviation Organisation)

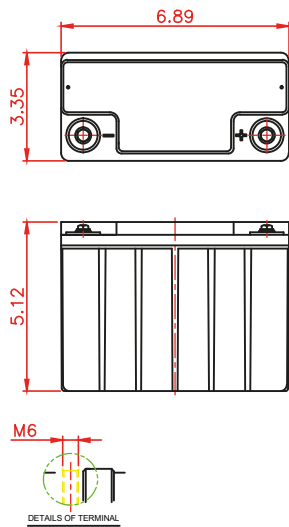
The management systems of HBL governing the manufacture of DataShield products are ISO 9001:2008, ISO 14001:2004 certified by Bureau Veritas.

Dimensional and Electrical Data

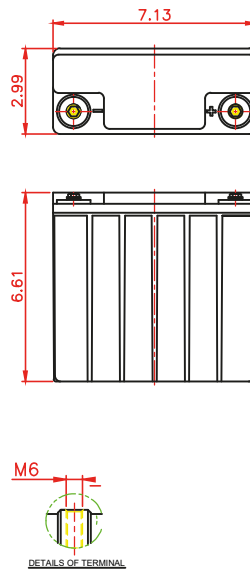
| Type | Capacity C10 @25° C to 1.80vpv | Length | | Width | | Height | | Weight | | Watts / cell to 1.67vpv @ 25°C | | | |
|---------------------|--------------------------------------|--------|-------|-------|------|--------|-------|--------|--------|-----------------------------------|-------|--------|--------|
| | | mm | in | mm | in | mm | in | Kg | lbs | 1 min | 5 min | 10 min | 20 min |
| 12V Top Terminals | | | | | | | | | | | | | |
| DS 12 - 109 | 13 | 175 | 6.89 | 85 | 3.35 | 130 | 5.12 | 5 | 11.02 | 182 | 109 | 72 | 58 |
| DS 12 - 134 | 16 | 181 | 7.13 | 76 | 2.99 | 168 | 6.61 | 6 | 13.23 | 224 | 134 | 88 | 70 |
| DS 12 - 252 | 30 | 163 | 6.42 | 142 | 5.59 | 200 | 7.87 | 12 | 26.46 | 420 | 252 | 165 | 140 |
| DS 12 - 319 | 38 | 249 | 9.80 | 97 | 3.82 | 201 | 7.91 | 13 | 28.66 | 532 | 319 | 209 | 164 |
| DS 12 - 420 | 50 | 220 | 8.66 | 121 | 4.76 | 245 | 9.65 | 19 | 41.89 | 700 | 420 | 275 | 215 |
| DS 12 - 588 | 70 | 330 | 12.99 | 168 | 6.61 | 176 | 6.93 | 23 | 50.71 | 980 | 588 | 385 | 300 |
| DS 12 - 840 | 100 | 410 | 16.14 | 175 | 6.89 | 225 | 8.86 | 36 | 79.37 | 1250 | 840 | 550 | 437 |
| DS 12 - 1260 | 150 | 525 | 20.67 | 220 | 8.66 | 225 | 8.86 | 56 | 123.46 | 1875 | 1260 | 825 | 660 |
| 12V Front Terminals | | | | | | | | | | | | | |
| DS 12 - 608 | 75 | 490 | 19.29 | 110 | 4.33 | 225 | 8.86 | 24 | 52.91 | 900 | 608 | 390 | 296 |
| DS 12 - 810 | 100 | 510 | 20.08 | 110 | 4.33 | 240 | 9.45 | 32 | 70.55 | 1200 | 810 | 520 | 394 |
| 6V Top Terminals | | | | | | | | | | | | | |
| DS 6 - 1008 | 120 | 205 | 8.07 | 197 | 7.76 | 235 | 9.25 | 23 | 50.71 | 1500 | 1008 | 660 | 473 |
| DS 6 - 1176 | 140 | 205 | 8.07 | 197 | 7.76 | 235 | 9.25 | 25 | 55.12 | 1750 | 1176 | 770 | 552 |
| 2V Top Terminals | | | | | | | | | | | | | |
| DS 2 - 2520 | 300 | 209 | 8.23 | 139 | 5.47 | 283 | 11.14 | 19 | 41.89 | 3750 | 2520 | 1650 | 1285 |

Terminal Arrangements:

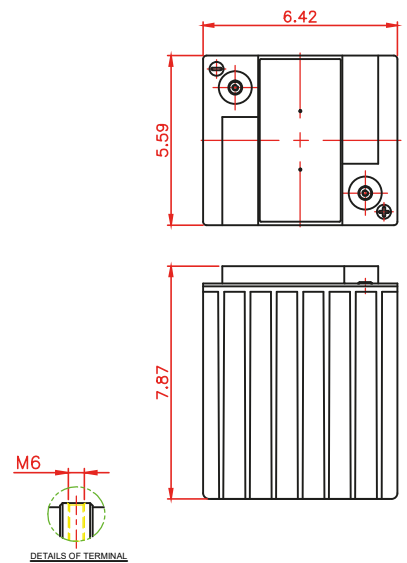
DS 12 - 109



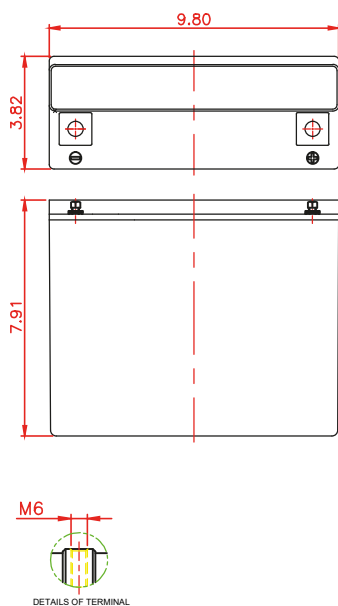
DS 12 - 134



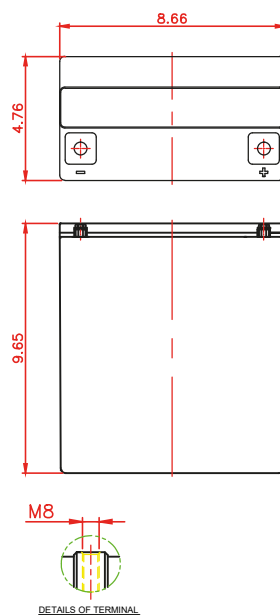
DS 12-252



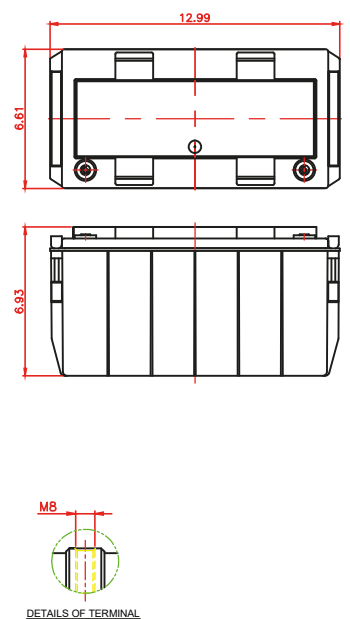
DS 12-319



DS 12-420



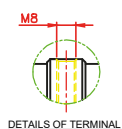
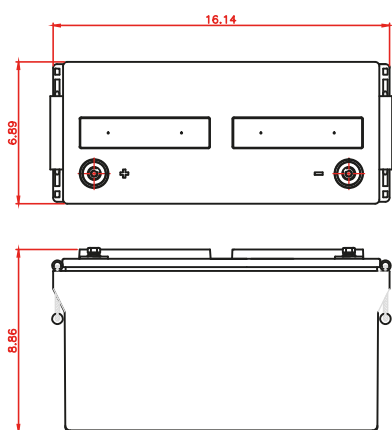
DS 12-588



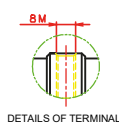
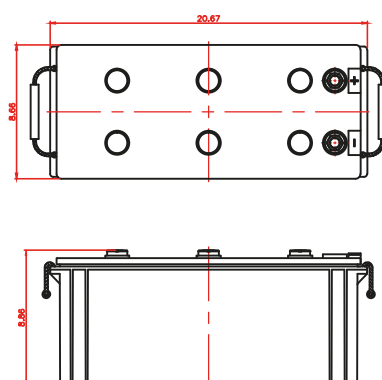
ALL DIMENSIONS ARE IN INCHES

Terminal Arrangements:

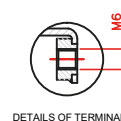
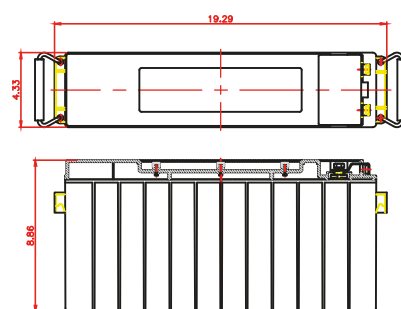
DS 12-840



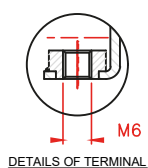
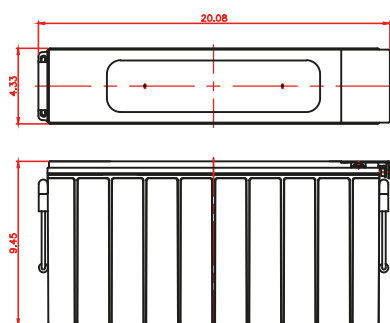
DS 12-1260



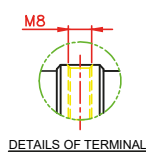
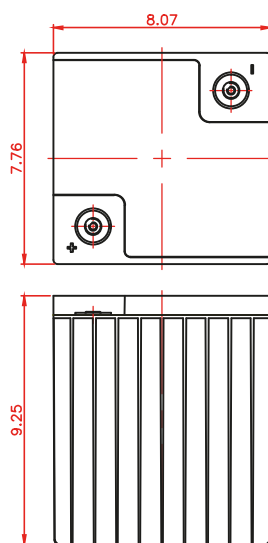
DS 12-608FT



DS 12-810FT



DS 6-1008



DS 2-2520

