

Reliability Redefined





Today's global businesses demand a 24x7 uptime environment making Uninterrupted Power Supplies (UPS) an integral part of the infrastructure. Batteries are the single most critical element of UPS system.

HBL takes pride in positioning itself as the industry leader in manufacturing reliable, safe, high-quality Sealed Maintenance Free batteries for UPS applications.

HBL has a state-of-the-art manufacturing facility with high quality standards which is accredited with ISO 9001, 14001 and OHSAS 45001 certifications.

Applications



UPS Systems

Banking, Financial Services & Insurance IT/ITES



Telecom Optical Network Terminal

Telecom Equipment



Power Back up CFL/LED Lamps Railway Emergency Light Solar Power Equipment

Medical Instruments Fire & Security Alarm Systems

Feature benefit snapshot

Cyclic grid alloy for positive plate *Higher cycle life*

Radial grids

Low internal resistance Quick recharge High discharge performance

AGM Separator Greater compression Longer life

Copper alloy screw type terminals Better electrical conductivity Absolute positive contact Zero wear & tear

Deep discharge capability Withstands frequent & long power failures

Low self discharge Longer shelf life

Product conformance //S C 8702 - 1

OPTIMUZ is the first choice for IT, Banking, Educational institutions & Industries

Design and construction features

Container and cover sealing Heat sealing / Special epoxy sealing for better joint strength

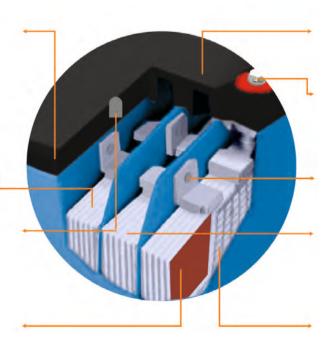
Separator

High porosity Absorbent Glass Mat separator (AGM) with low internal resistance

> **Safety valve** Self releasing, pressure regulating EPDM valve

Positive plate

Flat pasted plate with corrosion resistant cyclic lead alloy



Container

High impact PP/ABS container for better strength

Terminals

High conductivity brass terminals for better electrical conductivity

Inter Cell Welding (ICW)

or Over patrician joint Withstands high rate performance

Electrolyte

High purity sulphuric acid along with additives to maximize shelf life and to improve heat dissipation

Negative plate

Flat pasted plate with lead calcium alloy for maintenance free

Charge settings at 27°C

Float Application Boost 13.8-14.0V; Float 13.4-13.5V

Cyclic Application 13.8-14.0V

Current limit

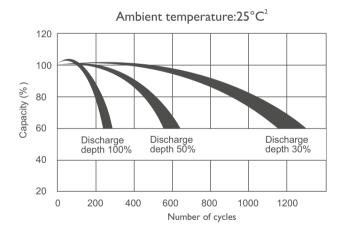
Minimum: 10% of Rated capacity Maximum: 30% of Rated capacity

Temperature compensation for charge voltage Compensation of 18mV to be reduced for every 1°C rise in temperature and vice versa.



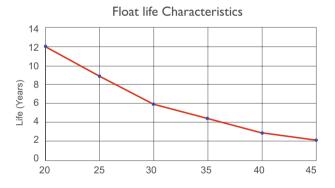
Cycle life

Battery cycle life is highly dependent on the depth of discharge, recharge and ambient temperature that the battery experiences during each cycle. The number of cycles related to the depth of discharge with respect to % capacity is shown in graph.



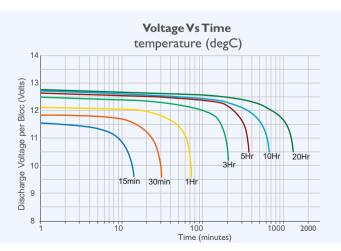
Design float life

The float life of the battery is defined in calendar years at a standard temperature of 27°C, when floated with a charge voltage of 2.25 volts per cell. The expected float life of batteries at various average ambient temperatures, when floated with a voltage of 2.25 volts per cell is shown in graph.



Discharge characteristics

The curves in the figure illustrate the typical discharge characteristics at an ambient temperature of 27°C. The C20 expresses the nominal capacity of the battery at 20 hr discharge rate.



Product Specifications

Constant Power Discharge Performance at 27°C

MODEL	Capacity at	Dimensions in mm			Weight	Watts per Block to end 10.5V							
	20 Hr, Ah	Length	Width	Height	(Kg)	10 min	15 min	30 min	l Hour	3 Hours	5 Hours	10 Hours	20 Hours
OPTI 7	7	151	65	100	2.2	161	130	80	51	21.3	14.5	7.9	4.24
OPTI 12	12	151	98	100	3.8	277	222	138	87	36.5	24.9	13.5	7.3
OPTI 18	18	181	76	171	6.0	415	333	207	131	55	37.3	20.2	10.9
OPTI 26	26	166	125	175	9.0	674	512	310	193	79	54	29.2	15.7
OPTI 42	42	198	168	174	13.5	922	741	482	305	128	87	47.2	25.4
OPTI 65	65	350	168	176	20.0	1441	1157	747	471	197	135	73	39.4
OPTI 75	75	350	168	176	23.5	1730	1389	861	544	228	156	84	45.4
OPTI 85	85	410	175	225	26.5	1794	1437	916	573	236	161	93	51
OPTI 100	100	410	175	225	30.0	1991	1625	1078	674	278	189	110	61
OPTI 120	120	410	175	225	33.0	2389	1950	1294	809	333	227	132	73
OPTI 130	130	407	173	240	36.5	2489	2196	1347	876	361	246	142	79
OPTI 150	150	444	173	250	42.5	3186	2600	1725	1079	445	303	175	91
OPTI 200	200	525	225	225	56.0	3982	3250	2156	1348	556	378	219	121
OPTIPLUS 200	200	535	225	240	60.5	4622	3790	2460	1461	608	415	225	121

* FR Container optional

* High Wattage Model available: 720W (15 min @ 10.2 V)

* OPTIPLUS C10 Models available:100Ah, 120Ah, 150Ah, 160Ah, 200Ah

Our presence

