BPOWER®

DATA SHEET

BPE 12-12

BPE Series - Valve Regulated Lead Acid Battery

TECHNICAL DATA

BASIC DATA		
Rated voltage	12	V
20hr capacity at end voltage 1,75V/cell at 25°C	12	Ah
Internal resistance (fully charged battery) at 25°C	13	mΩ
DIMENSIONS		
Length	151(±1)	mm
Width	98(±1)	mm
Height	95(±1)	mm
(Height with terminals)	101(±1)	mm
Weight	3,80	kg
TERMINALS		
Faston	T2	-
OPERATION TEMPERATURE RANGE		
Storage	-15°C to +40°C	
Charge	-15°C to +40°C	
Discharge	-15°C to +50°C	
STORAGE		
Selfdischarge after 3 months at 20°C	10	%
Selfdischarge after 6 months at 20°C	20	%
Selfdischarge after 12 months at 20°C	40	%
CASE MATERIAL		
Standard	ABS (UL.94:HB)	
Flame retardant	ABS (UL94:V0)	
CHARGE VOLTAGE		
Float charge at 25°C	13,65 V ± 0,18 V	
Cycle charge at 25°C	14,70 V ± 0,30 V	
CHARGE CURRENT		
Recommended	1,2	A
Maximum	3,6	A
MAX. DISCHARGE CURRENT		
5 sec.	180	A
DESIGNED LIFE		
BPower designed life at 25°C	up to 5	years
At 20°C according to Eurobat - General Purpose group	6 - 9	years
CYCLE LIFE		
At 100% D.O.D.	200	cycles
At 50% D.O.D.	500	cycles

PHOTO

APPLICATIONS

- Uninterruptible Power Suplies (UPS)
- Telecommunication PABX
- Cash registers and fiscal printers
- Emergency lighting systems
- Emergency and fire systems
- Measure and mobile equipment
- Lawn mowers and electric bikes
- Toys

SAFETY

DISCHARGE CHARACTERISTICS

• Constant current (Current [A], 25 [°C])

F.V. V/cell	Discharge time 5 min	10 min	15 min	30 min	1h	2h	3h	4h	5h	10h	20h
1,85	36,5	25,2	19,4	11,2	8,05	4,13	2,81	2,33	1,93	1,14	0,580
1,80	40,6	27,5	20,9	11,9	8,23	4,27	3,00	2,38	1,99	1,16	0,587
1,75	43,6	28,8	21,7	12,3	8,35	4,38	3,07	2,42	2,04	1,18	0,606
1,70	46,7	30,1	22,4	12,7	8,46	4,47	3,13	2,47	2,10	1,20	0,614
1,65	49,6	31,3	23,0	13,0	8,57	4,54	3,19	2,53	2,15	1,22	0,629
1,60	52,3	32,0	23,7	13,2	8,64	4,59	3,22	2,57	2,19	1,23	0,643

• Constant power (Power [W/cell], 25 [°C])

F.V. V/cell	Discharge time 5 min	10 min	15 min	30 min	1h	2h	3h	4h	5h	10h	20h
1,85	66,2	47,0	37,8	21,8	15,5	8,46	5,54	4,68	3,88	2,29	1,17
1,80	73,7	51,5	40,2	23,1	16,0	8,74	5,75	4,78	4,00	2,35	1,19
1,75	79,2	53,8	41,7	24,1	16,4	8,86	5,93	4,86	4,10	2,39	1,23
1,70	85,0	56,2	43,2	24,9	16,7	8,96	6,08	4,96	4,21	2,42	1,23
1,65	90,1	58,3	44,5	25,4	17,0	9,06	6,22	5,10	4,29	2,45	1,26
1,60	95,1	59,8	45,7	25,8	17,2	9,13	6,29	5,15	4,39	2,47	1,29

F.V. - Final Voltage

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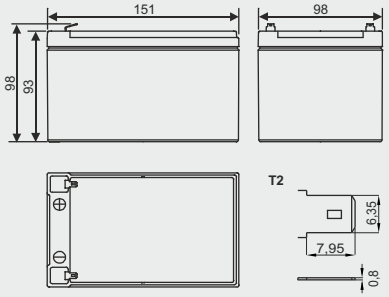
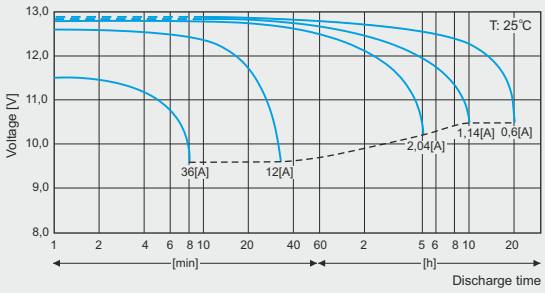
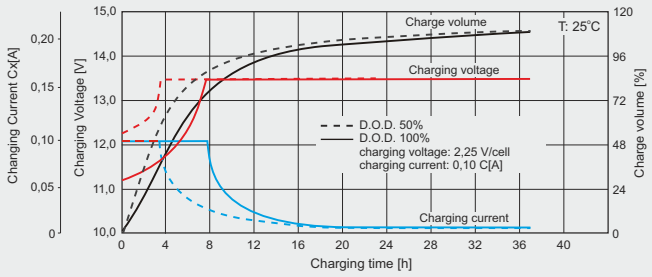
DIMENSIONS/TERMINALS



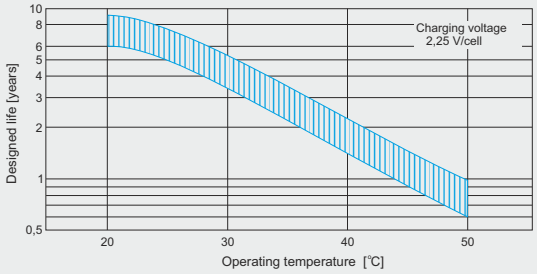
DISCHARGE CHARACTERISTICS



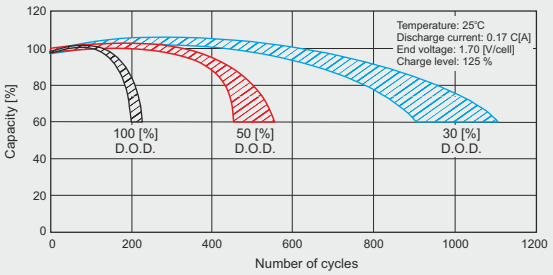
CHARGE CHARACTERISTICS



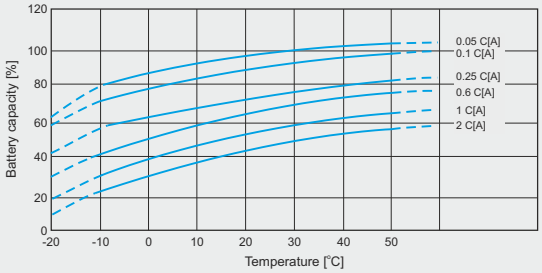
FLOAT LIFE



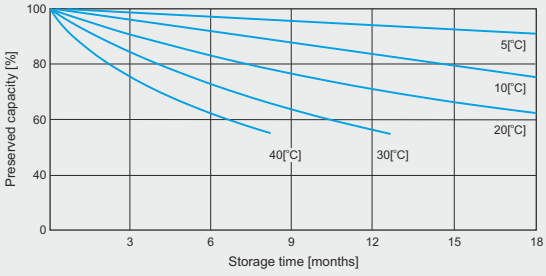
CYCLIC LIFE



CAPACITY VS. TEMPERATURE



SELFDISCHARGE CHARACTERISTICS



ENVIRONMENTAL INFORMATION

EXPLOITED BATTERIES ARE CONSIDERED AS HAZARDOUS WASTE. THESE WASTES DUE TO THEIR ORIGIN, CHEMICAL COMPOSITION (THEY CONTAINS HEAVY METALS LIKE LEAD AND OTHER TOXIC SUBSTATIONS) AND OTHER FEATURES MAY BE DANGEROUS FOR ENVIRONMENT AND HUMAN OR ANIMAL HEALTH AND LIFE.