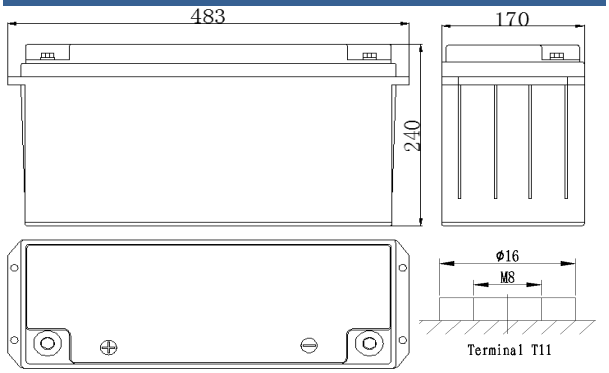
RPower 12V 4 OPzV 120 LW
(12V 120Ah OPzV Battery)

RP-TECHNIK
PART OF RP-GROUP

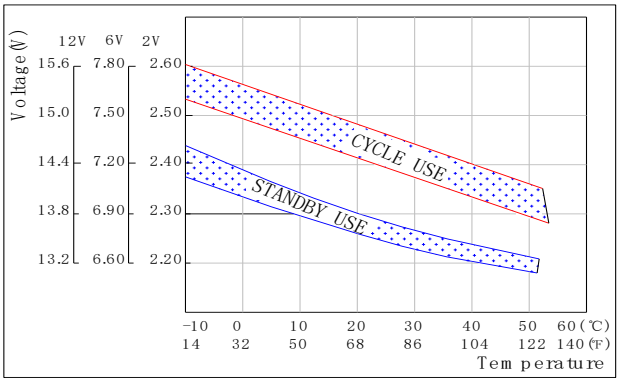
Floating Life at 20°C designed for up to 20 years

EAN: 4260349822329

Dimensions



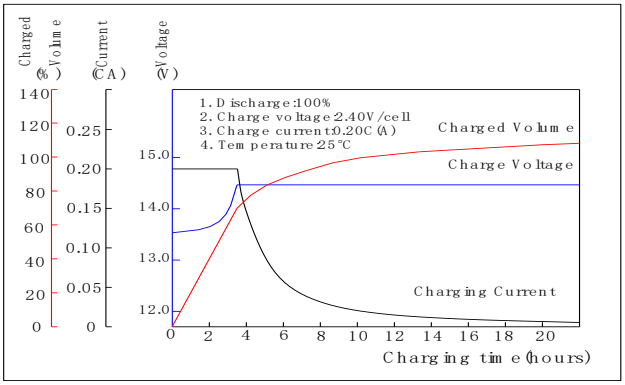
The Relationship for Charging Voltage and Temperature



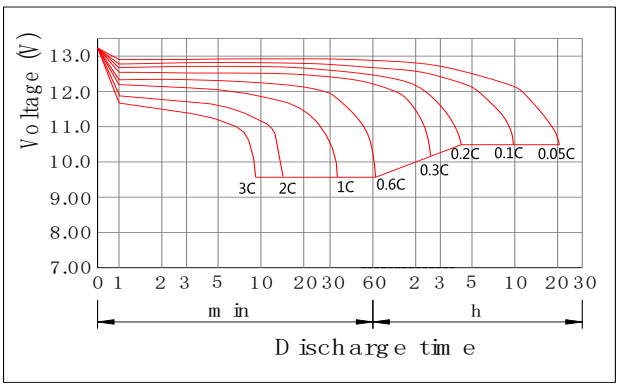
Specifications

Nominal Voltage		12V
Capacity (10hr@25°C@1.80V/C)		120Ah
Dimensions (±2mm)	Length	483mm (19.0inch)
	Width	170mm (6.69inch)
	Height	240mm (9.45inch)
	Total Height	240mm (9.45inch)
Approx. Weight		45.50kg (100.3lbs)
Maximum charging current		36A
Maximum discharge current		750A (5sec.)
Internal resistance		Approx. 8.8mΩ
Capacity affected by temperature (10hr)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 93%
	6 month	Remaining Capacity: 85%
	12 month	Remaining Capacity: 72%
Nominal operating temperature		25°C ±3°C (77°F±5°F)
Operating temperature range		-20°C~50°C (-4°F~122°F)
Float charging voltage (25°C)		13.65 to 13.80V
Cyclic charging voltage (25°C)		14.40 to 15.00V
Terminal material		Copper

Charging Characteristics (25°C)



Discharge Characteristics (25°C)



Constant Current Discharge Characteristics (Ampere / Battery, 25°C)

FV / TIME	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
10.98V	122,9	115,20	105,58	94,12	85,86	70,34	56,20	38,13	28,12	23,70	20,19	17,24	13,04	11,83	6,25
10.80V	129,0	120,96	109,39	97,52	88,94	72,87	58,11	38,94	28,87	24,33	20,72	17,69	13,39	12,00	6,36
10.50V	136,7	128,16	115,50	102,97	92,33	75,64	59,96	39,95	29,76	25,08	21,36	18,24	13,80	12,06	6,40
10.20V	142,8	133,92	119,57	106,60	94,62	77,52	61,17	40,56	29,97	25,26	21,51	18,37	13,90	12,16	6,44
9.90V	149,0	139,68	124,15	110,68	97,61	79,97	62,76	40,93	30,18	25,43	21,66	18,50	13,99	12,19	6,46
9.60V	153,6	144,00	127,20	113,40	99,60	81,60	63,72	41,17	30,36	25,58	21,79	18,60	14,08	12,22	6,47

Constant Power Discharge Characteristics (Watt / Battery, 25°C)

FV / TIME	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
10.98V	1290,24	1244,16	1159,22	1033,46	963,30	789,21	640,69	441,50	330,73	278,72	238,59	203,74	154,93	141,27	75,02
10.80V	1354,75	1306,37	1201,12	1070,81	997,94	817,59	662,48	450,90	339,48	286,09	244,90	209,13	159,03	143,28	76,32
10.50V	1435,39	1384,13	1268,16	1130,58	1035,93	848,72	683,55	462,64	349,98	294,94	252,48	215,60	163,94	144,00	76,85
10.20V	1499,90	1446,34	1312,86	1170,42	1061,64	869,77	697,35	469,68	352,43	297,01	254,24	217,11	165,09	145,14	77,31
9.90V	1564,42	1508,54	1363,14	1215,25	1095,16	897,24	715,51	473,91	354,88	299,07	256,01	218,62	166,24	145,57	77,54
9.60V	1612,80	1555,20	1396,66	1245,13	1117,51	915,55	726,41	476,73	356,98	300,84	257,52	219,91	167,22	145,86	77,69