

RID WR 12-130

RESERVED POWER BATTERIES



12V
130AH



AGM
VRLA BATTERY

ELECTRICAL SPECIFICATIONS

Nominal voltage	12V
Number of cells	6
Rated capacity	130 Ah (10 h rate to 1.80 Vpc at 20 °C)
Internal resistance	4.65 mOhm (IEC 60 896-21/22)
Short circuit current	2750 A (IEC 60 896 -21/22)
Float charge voltage	2.27 V per cell (Vpc) at 20 °C

PHYSICAL CHARACTERISTICS

Length	550 mm
Width	110 mm
Height	285 mm
Weight	42 kg

DESIGN FEATURES

Design life at 20 °C	Very Long Life 12+ years
Platess	Tick Flat Pasted
Active material	Very high purity virgin lead
Grid alloy	Lead-Calcium-Tin alloy
Electrolyte	Sulphuric acid, Analytical grade
Separator	Absorbing Glass Mat (AGM)
Operating temperature	-20 °C to +60 °C (maximum) +15 °C to +25 °C (recommended)
Venting valve	Rubber, one way, self resealing: - Opening pressure: 3 PSI; - Resealing pressure: 2 PSI
Internal gas recombination efficiency	more than 99%
Central degassing system	Available
Flame arrestor	Available
Storage temperatures	-20 °C to +40 °C
Shelf life	Less than 2.0% per month at 20°C
Container / lid material	Shock resistant ABS FR; flammability class UL94 V0
Terminal position	Front
Terminal sealing	Mechanical + epoxy double sealing
Terminal type	Brass; Female; M8 thread
Terminal torque	7Nm
Terminal cover	Available
Carrying Handle	Available
Connectors and bolts	Supplied as standard



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BATTERY CAPACITY AT CONSTANT CURRENT DISCHARGE (AH) FOR BATTERY RID WR 12-130 AT 20 °C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	27	47	67	81.6	95.0	104.4	111.2	116.5	120.5	128.6	133.9	143.3
1.65	27	47	67	81.3	94.6	104.0	110.6	116.0	120.0	127.9	133.3	142.5
1.70	27	46	66	80.9	94.1	103.5	110.1	115.3	119.3	127.3	132.6	141.8
1.75	26	46	66	80.1	93.2	102.4	108.9	114.3	118.2	126.1	131.3	140.4
1.80	26	46	65	79.3	92.3	101.4	107.9	113.1	117.0	124.8	130.0	139.1
1.85	25	44	63	77.4	90.0	98.8	105.3	110.2	114.1	121.7	126.8	135.6

DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A) FOR BATTERY RID WR 12-130 AT 20 °C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	329	187	134	81.6	47.5	34.8	27.8	23.3	20.1	16.1	13.4	7.16
1.65	324	187	133	81.3	47.3	34.7	27.7	23.2	20.0	16.0	13.3	7.12
1.70	318	186	133	80.9	47.1	34.5	27.5	23.1	19.9	15.9	13.3	7.09
1.75	315	184	131	80.1	46.6	34.1	27.2	22.9	19.7	15.8	13.1	7.02
1.80	312	182	130	79.3	46.2	33.8	27.0	22.6	19.5	15.6	13.0	6.96
1.85	304	177	127	77.4	45.0	32.9	26.3	22.0	19.0	15.2	12.7	6.78

DISCHARGE PERFORMANCE AT CONSTANT POWER DISCHARGE (W PER CELL) FOR BATTERY RID WR 12-130 AT 20 °C

Uf, Vpc	5 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1.60	658	374	268	163.3	95.0	69.6	55.6	46.6	40.2	32.1	26.8	14.33
1.65	640	373	267	162.5	94.6	69.3	55.3	46.4	40.0	32.0	26.7	14.25
1.70	635	371	265	161.7	94.1	68.6	55.1	46.1	39.8	31.8	26.5	14.18
1.75	630	368	263	160.2	93.2	67.9	54.5	45.7	39.4	31.4	26.3	14.04
1.80	624	364	260	158.6	92.3	67.6	54.0	45.2	39.0	31.2	26.0	13.91
1.85	608	355	254	154.7	90.0	65.9	52.7	44.1	38.0	30.4	25.35	13.56

TEMPERATURE CORRECTION FACTOR OF CAPACITY AT CONSTANT CURRENT DISCHARGE

Discharge time	-10 °C	0 °C	10 °C	15 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C
From 5 to 59 minutes	0.70	0.80	0.90	0.95	1	1.05	1.10	1.13	1.15	1.16
From 1 to 20 hours	0.82	0.88	0.94	0.97	1	1.03	1.05	1.08	1.09	1.10

BATTERY CHARGE CONDITIONS AT 20 °C; CHARGE REGIME: CONSTANT VOLTAGE AND LIMITED CURRENT (IU)

Charge current limit	Float charge voltage	Equalization charge voltage	Boost charge voltage
"0.1 – 0.25C10 A Recommended: 0.20C10 A"	"2.27 V per cell at 20 °C; Temperature correction: -3 mV / cell / °C"	"2.32 V per cell at 20 °C Recommended: every 3 months for 24h during long time float operation"	"2.40 V per cell at 20 °C Temperature correction: -4 mV / cell / °C"
Float application: 0.20C10 A / 2.27 V per cell at 20 °C		Cycling applications: 0.20C10 A / 2.40 V per cell at 20 °C; Recharge Ah input at least 105% from previous discharge Ah	

