

## RID WR 12-155

RESERVED POWER BATTERIES



12V  
155AH



**AGM**  
VRLA BATTERY

### ELECTRICAL SPECIFICATIONS

Nominal voltage	12V
Number of cells	6
Rated capacity	155 Ah (10 h rate to 1.80 Vpc at 20 °C)
Internal resistance	4.4 mOhm (IEC 60 896-21/22)
Short circuit current	2850 A (IEC 60 896-21/22)
Float charge voltage	2.27 V per cell (Vpc) at 20 °C

### PHYSICAL CHARACTERISTICS

Length	555 mm
Width	125 mm
Height	276 mm
Weight	50,8 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 12-155 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	33	56	80	97.3	113.3	124.5	132.5	138.9	143.7	153.3	159.7	170.8
1.65	32	56	80	96.9	112.8	124.0	131.9	138.3	143.1	152.5	158.9	169.9
1.70	32	55	79	96.4	112.2	123.4	131.3	137.5	142.3	151.7	158.1	169.1
1.75	31	55	78	95.5	111.1	122.1	129.9	136.2	140.9	150.4	156.6	167.4
1.80	31	54	78	94.6	110.1	120.9	128.7	134.9	139.5	148.8	155.0	165.9
1.85	30	53	76	92.2	107.3	117.8	125.6	131.4	136.1	145.1	151.1	161.7

#### DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A) FOR BATTERY RID WR 12-155 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	393	223	160	97.3	56.7	41.5	33.1	27.8	23.9	19.2	16.0	8.54
1.65	386	223	159	96.9	56.4	41.3	33.0	27.7	23.8	19.1	15.9	8.49
1.70	380	221	158	96.4	56.1	41.1	32.8	27.5	23.7	19.0	15.8	8.46
1.75	376	219	157	95.5	55.6	40.7	32.5	27.2	23.5	18.8	15.7	8.37
1.80	372	217	155	94.6	55.0	40.3	32.2	27.0	23.3	18.6	15.5	8.29
1.85	363	211	151	92.2	53.6	39.3	31.4	26.3	22.7	18.1	15.1	8.08

#### DISCHARGE PERFORMANCE AT CONSTANT POWER DISCHARGE (W PER CELL) FOR BATTERY RID WR 12-155 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	785	446	319	194.7	113.3	83.0	66.3	55.6	47.9	38.3	31.9	17.08
1.65	763	445	318	193.8	112.8	82.7	66.0	55.3	47.7	38.1	31.8	16.99
1.70	757	443	316	192.8	112.2	81.8	65.7	55.0	47.4	37.9	31.6	16.91
1.75	751	439	313	191.0	111.1	81.0	64.9	54.5	47.0	37.4	31.3	16.74
1.80	744	434	310	189.1	110.1	80.6	64.3	53.9	46.5	37.2	31.0	16.59
1.85	725	423	303	184.5	107.3	78.5	62.8	52.6	45.4	36.3	30.23	16.17

#### 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	

