

## RID WR 12-92

RESERVED POWER BATTERIES



12V  
92AH



**AGM**  
VRLA BATTERY

### ELECTRICAL SPECIFICATIONS

Nominal voltage	12V
Number of cells	6
Rated capacity	92 Ah (10 h rate to 1.80 Vpc at 20 °C)
Internal resistance	6.6 mOhm (IEC 60 896-21/22)
Short circuit current	1900 A (IEC 60 896-21/22)
Float charge voltage	2.27 V per cell (Vpc) at 20 °C

### PHYSICAL CHARACTERISTICS

Length	395 mm
Width	105 mm
Height	280 mm
Weight	29,3 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 12-92 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	19	33	47	57.8	67.3	73.9	78.7	82.4	85.3	91.0	94.8	101.4
1.65	19	33	47	57.5	67.0	73.6	78.3	82.1	84.9	90.5	94.3	100.8
1.70	19	33	47	57.2	66.6	73.2	77.9	81.6	84.5	90.1	93.8	100.4
1.75	19	33	46	56.7	66.0	72.5	77.1	80.9	83.6	89.2	92.9	99.4
1.80	18	32	46	56.1	65.3	71.8	76.4	80.0	82.8	88.3	92.0	98.4
1.85	18	31	45	54.7	63.7	69.9	74.5	78.0	80.8	86.1	89.7	96.0

### DISCHARGE PERFORMANCE AT CONSTANT CURRENT DISCHARGE (A) FOR BATTERY RID WR 12-92 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	233	132	95	57.8	33.6	24.6	19.7	16.5	14.2	11.4	9.5	5.07
1.65	229	132	94	57.5	33.5	24.5	19.6	16.4	14.2	11.3	9.4	5.04
1.70	225	131	94	57.2	33.3	24.4	19.5	16.3	14.1	11.3	9.4	5.02
1.75	223	130	93	56.7	33.0	24.2	19.3	16.2	13.9	11.2	9.3	4.97
1.80	221	129	92	56.1	32.7	23.9	19.1	16.0	13.8	11.0	9.2	4.92
1.85	215	125	90	54.7	31.8	23.3	18.6	15.6	13.5	10.8	9.0	4.80

### DISCHARGE PERFORMANCE AT CONSTANT POWER DISCHARGE (W PER CELL) FOR BATTERY RID WR 12-92 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	466	265	190	115.6	67.3	49.3	39.3	33.0	28.4	22.7	19.0	10.14
1.65	453	264	189	115.0	67.0	49.1	39.2	32.8	28.3	22.6	18.9	10.08
1.70	449	263	188	114.4	66.6	48.6	39.0	32.6	28.2	22.5	18.8	10.04
1.75	446	261	186	113.3	66.0	48.1	38.5	32.3	27.9	22.2	18.6	9.94
1.80	442	258	184	112.2	65.3	47.8	38.2	32.0	27.6	22.1	18.4	9.84
1.85	431	251	180	109.5	63.7	46.6	37.3	31.2	26.9	21.5	17.94	9.60

### 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	

