

6-GFMHR-180W

GFMHR Series VRLA Gel Battery

ALLGRAND®

Power the World



Applications

- ▣ Data Center, UPS
- ▣ High-power and high current discharge scenarios
- ▣ High precision device backup power supply
- ▣ Emergency lights, beacon lights

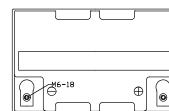
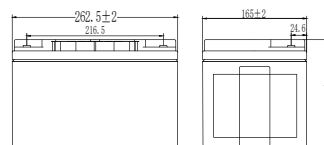
Highlights

- ▣ Designed for high-current, high-power applications with high energy density
- ▣ Design life up to 12 years
- ▣ Easy maintenance, low total cost
- ▣ Safe, reliable and stable

Features

- ▣ Small internal resistance and voltage drop suitable for high-power and high-current discharge
- ▣ Low self discharge, good charge acceptance, sealed and high efficient reaction
- ▣ Excellent production process, strong battery consistency

Dimensions



L: 262.5mm
W: 165mm
H: 169.5mm
TH: 169.5mm

Certifications



Specifications

Model	6-GFMHR-180W	
Design Life	12 years	
Nominal Capacity	20HR(2.7A,1.80V)	54Ah
	10HR(5.0A,1.80V)	50Ah
	3HR(13.5A,1.80V)	37.5Ah
	1HR(27.5A,1.80V)	27.5Ah
Internal Resistance	7.5mΩ(Full Charge)	
Self Discharge	≤3% per month	
Charge Voltage	Cycle Use	Standby Use
	2.33-2.37V/Cell (-4mV/°C/Cell) Max. Charge Current:7.5A	2.23-2.27V/Cell (-3mV/°C/Cell)

Note: Data contained herein are measured at 25°C

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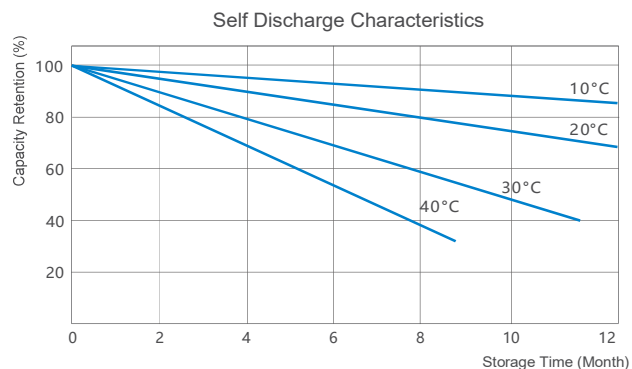
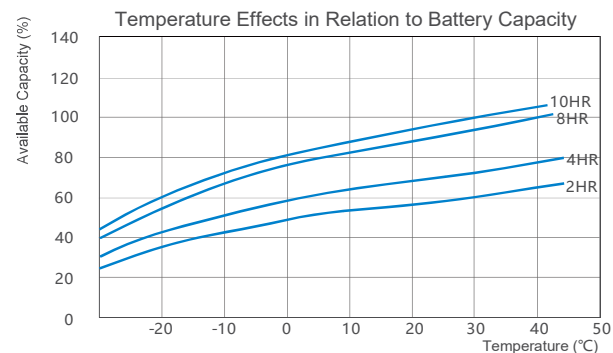
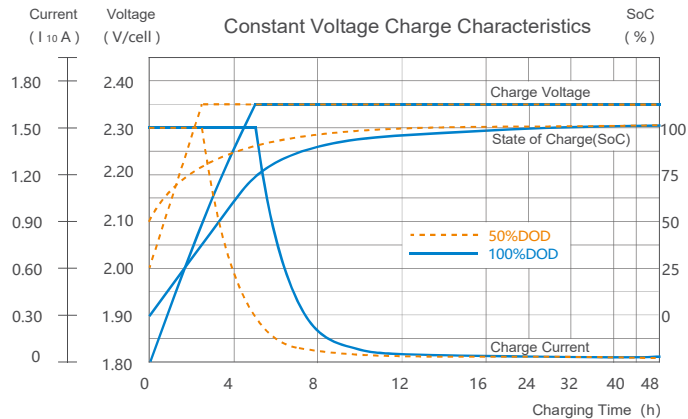
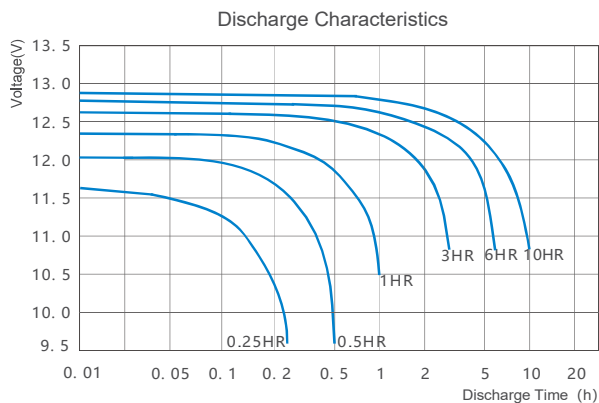
Constant Current Discharge Rate (A, 25°C)

Model	F.V. (V/Cell)	Minute						Hour							
		5	10	15	20	30	45	1	2	3	4	5	6	8	10
6-GFMHR-180W	1.85	116	90.7	71.8	57.2	42.9	31.8	25.5	17.8	13.5	10.4	8.90	7.60	5.90	5.20
	1.80	133	107	82.2	65.0	45.5	33.3	27.0	18.2	13.8	10.6	9.00	7.70	6.10	5.30
	1.75	148	116	91.4	71.0	49.1	36.9	27.6	18.4	13.9	10.7	9.10	7.80	6.20	5.40
	1.70	170	130	102	76.9	51.8	39.4	28.5	18.6	14.1	10.8	9.20	7.90	6.26	5.50
	1.67	176	138	110	82.6	53.3	40.4	30.0	19.1	14.4	10.9	9.40	8.00	6.30	5.60
	1.60	187	148	119	86.8	56.8	42.8	31.0	19.2	14.5	11.1	9.47	8.07	6.35	5.64

Constant Power Discharge Rate (Watt/Cell, 25°C)

Model	F.V. (V/Cell)	Minute						Hour							
		5	10	15	20	30	45	1	2	3	4	5	6	8	10
6-GFMHR-180W	1.85	230	175	142	120	92.9	72.3	61.8	40.1	28.9	22.4	19.3	16.6	12.8	10.3
	1.80	265	201	159	133	101	77.0	65.0	41.7	30.2	23.4	19.7	17.0	13.1	10.5
	1.75	286	221	169	143	106	79.5	66.5	42.3	30.8	23.7	19.9	17.1	13.2	10.9
	1.70	298	237	176	146	108	80.4	67.5	42.6	31.0	23.8	20.0	17.2	13.3	11.0
	1.67	314	246	180	149	109	81.0	67.7	42.8	31.1	23.9	20.1	17.3	13.4	11.0
	1.60	321	252	182	150	110	81.4	67.9	42.9	31.2	24.0	20.2	17.4	13.5	11.2

Performance



Disclaimer: All data presented above are subject to change without further notice.
Please contact ALLGRAND for latest updates.