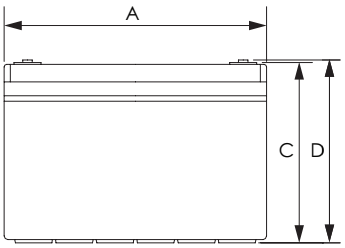
RM12-120DC

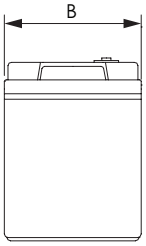
DATA SHEET

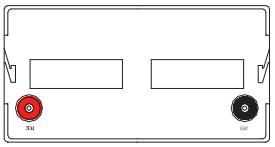
Cyclic AGM Battery Block

REMCO Deep Cycle Series VRLA Industrial Batteries provide superior high integrity and reliability with its maintenance-free Valve Regulated Lead Acid (VRLA) construction, making REMCO Deep Cycle Series the definitive choice for Solar/Renewable Energy, Marine and RV.

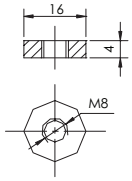
Mechanical Drawings





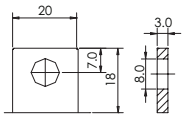


Terminal (F12)



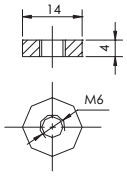
Terminal Torque
NM: 11 / Ft-lbs: 8

Optional Terminal (F5)



Terminal Torque
NM: 7 / Ft-lbs: 5

Optional Terminal (F11)



Terminal Torque
NM: 7 / Ft-lbs: 5

Benefits and Features

- Tank formed lead-tin-calcium plates deliver consistent dependable performance and promote long life
- Maintenance-free technology
- 99% gas recombination for extended life in float applications
- Multiple terminal, configuration options and carrying handles available with most models
- Classified as a non-spillable battery and is not restricted for transportation by:
  - Air (IATA/ICAO provision 67)
  - Surface (DOT-CFR-HMR49)
  - Water (per IMDG amendment 27)
- Flame retardant ABS case and cover with UL94 V0 rating available
- UL924 recognized flame arresting low pressure safety vents
- 98% recyclable

Mechanical Specifications

Length (A)	12.9 in	328 mm
Width (B)	6.73 in	171 mm
Height (C)	8.43 in	214 mm
Total Height (D)	8.66 in	220 mm
Weight*	68.3 lbs	31.0 kgs
Terminal (Opt'l)	F12 (F5)(F11)	
Cells	6	
Electrolyte	AGM	

***NOTE:** There is a tolerance of +/-2%.

****CAUTION:** Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum temperatures.

Electrical Specifications

Voltage	12 V
Internal Resistance	5 mΩ
Short Circuit 20°C (68°F)	-
20 HR	120 Ah
10 HR	108 Ah
5 HR	95 Ah
1 HR	65 Ah
Charge Temperature	-10°C (14°F) to 50°C (122°F)
Discharge Temperature	-20°C (-4°F) to 50°C (122°F)
Maximum Discharge**	-40°C (-40°F) to 60°C (140°F)

Certifications and Standards

Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards, including:

- IEC60896-21/22
- BS EN 60254-1:2005
- AS/NZS 4029.2.2000 BS EN 60254-1:2005 (MOD)

The manufacturing facilities and products are certified to multiple standards:

- ISO, QS and TUV standards
- ETTS Germany
- Euro Bat classification for Environmental Stewardship Standards

Discharge Constant Current (Amperes at 25°C/77°F)

End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60V	315	239	180	113	65.0	31.2	19.8	11.1	6.24
1.65V	299	228	175	108	63.9	30.7	19.4	11.1	6.19
1.70V	281	215	166	103	62.6	30.0	19.2	11.0	6.15
1.75V	261	202	157	97	61.2	29.2	19.0	10.9	6.10
1.80V	239	185	146	90	59.4	28.3	17.8	10.8	5.99

Discharge Constant Power (Watts at 25°C/ 77°F)

End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR
1.60V	540	405	342	207	162	129	70.2	52.3	36.7
1.65V	511	385	329	201	158	127	68.9	51.5	36.1
1.70V	480	363	312	192	153	125	67.1	50.4	35.4
1.75V	455	338	294	183	148	122	65.3	49.2	34.7
1.80V	426	311	275	171	140	119	63.0	47.9	33.8

Contact Us

HCB TECHNOLOGIES

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Updated: September 20th, 2016

Charge and Discharge

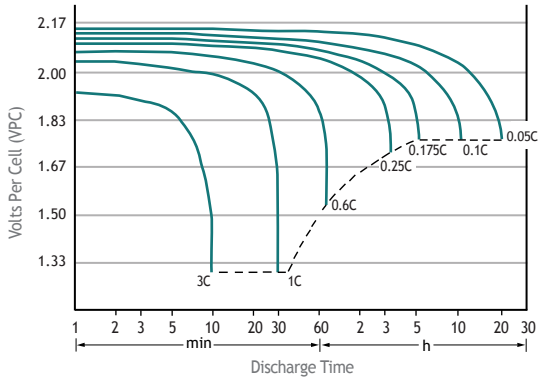
Max Charge / Discharge Currents	Peak (5 seconds)	Peak (10 seconds)	Max Continuous
Charge	1c20	0.75c20	0.25c20
Discharge	15c20	10c20	0.5c20

Float (Stand-By) Use: Hold a constant voltage of 2.25vpc to 2.30vpc continuously. When held at this voltage, the battery will seeks its own current level and maintain itself in a fully charged condition.

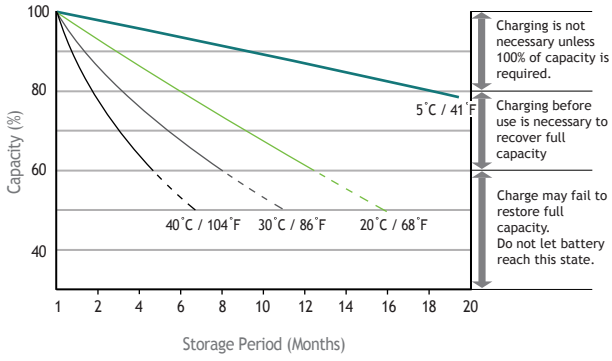
Cyclic Use: Limit initial currents to 0.25C20 amps. Charge until battery voltage reaches 2.40 to 2.45vpc. Hold at 2.40 to 2.45vpc until current drops to under 0.01C20 amps. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

Temperature Coefficient: Adjust charging voltage to +/- 0.005vpc (C, 0.003vpc/F) from 25˚C (77˚F).

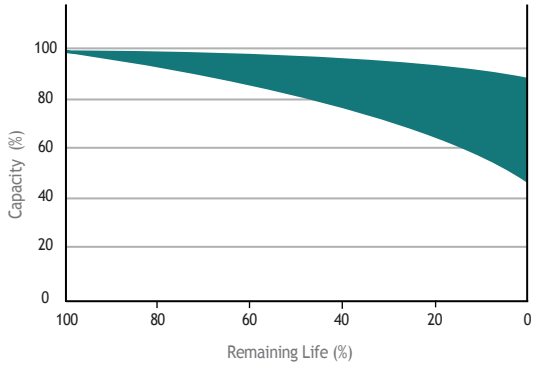
Discharge Characteristics (20˚C/68˚F)



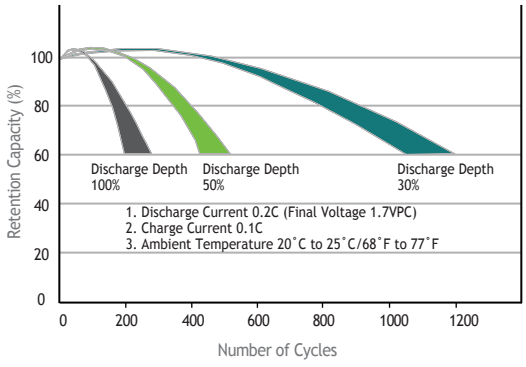
Self-Discharge Characteristics



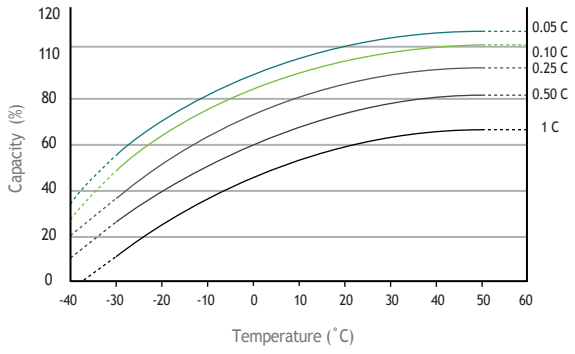
Life Characteristics in Stand-By Use



Life Characteristics in Cyclic Use (Cyclic Models Only)



Temperature Effects on Capacity



Temperature Effects on Float Life