


AFRIIPOWER Tall Tubular Batteries are designed to out-perform traditional solar energy storage solutions. Their advanced tubular plate technology ensures superior durability and longer lifespan, even in harsh environmental conditions, Afriipower tall tubular batteries offer higher charge acceptance, lower maintenance requirements, and exceptional deep cycling capabilities, making them the ideal choice for reliable and sustainable solar energy. With Afriipower tall tubular batteries, you can trust in a proven, high-performance solution to power your inverter and solar system for years to come.



MODEL:	AP2200
BATTERY:	Tall Tubular
VOLTAGE:	12V
DIMENSIONS:	Millimeter
COLOR:	Black (case) Red (cover)
MATERIAL:	Polypropylene

FEATURES	ADVANTAGES
EFB Technology	specially designed solar tubular for solar application low water top up and is completely spill proof
Gelled Electrolyte	Low electrolyte stratification, no plate shedding, No failure due to PSOC, Consistent backup through-out the life , Long life
High Grade imported Separator	Less electrical resistance, High oxidation resistance, high porosity. High charging efficiency.
Imported PRV (Pressure release valve)	 Explosion proof, Self-releasing, Regulate the internal gassing pressure.
Environment friendly and safe	Environment friendly and safer as it emits no fumes and absolutely maintenance free.

TECHNICAL SPECIFICATION					
Model Nomenclature	Voltage	Capacity @ C20	Battery Overall Dimensions (± 3 mm)		Battery weight (±3%)
AP2200	12V	220Ah	Length	Width	Overall Height
			511	190	457

CHARGE CHARACTERISTICS (27°C)	
Cycle Use (BOOST/BULK)	Standby Use (FLOAT)
15.80 - 16.20V (-40mV/°C), Maximum Current 40A	13.80 - 14.20V (-20mV/°C)

*Battery to be recharged in CV mode only

OPERATIONAL DATA	
OPERATING TEMPERATURE	SELF DISCHARGE
-4°F to 113°F (-20°C to +45°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 2% per month at 20°C temperature conditions.

CHARGING TEMPERATURE COMPENSATION	
ADD	SUBTRACT
0.005 Volt per cell for every 1°C below 25°C 0.0028 Volt per cell for every 1°F below 77°F	0.005 Volt per cell for every 1°C above 25°C 0.0028 Volt per cell for every 1°F above 77°F

ELECTRICAL SPECIFICATION

CAPACITY AMP-HOURS (Ah)

20Hr (12A, 10.50V)	10Hr (21.5A, 10.50V)
220	203

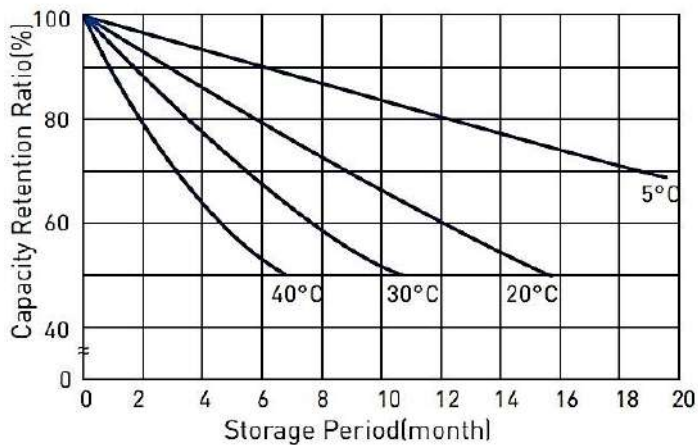
CONSTANT POWER DISCHARGE PERFORMANCE**

MAXIMUM BACKUP DURATION (HH:MM) (Upto 10.5V)

700W	600W	500W	400W	300W	200W	100W
02:10	2:40	03:10	04:10	05:30	7:00	14:30

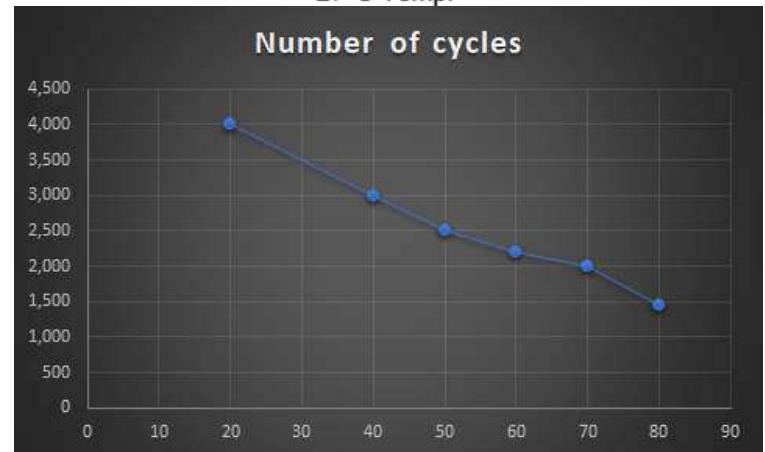
** All test data based on stabilized battery capacity on new battery, under controlled laboratory test conditions

SELF DISCHARGE CHARACTERISTICS



TYPICAL CYCLE LIFE IN A STATIONARY APPLICATION

27°C Temp.



BATTERY DIMENSIONS:

EFB's – Enhanced Flooded Batteries from AFRIIPOWER

Enhanced flooded batteries (EFBs) offer several benefits in deep cycle applications compared to traditional flooded lead acid batteries.

EFBs have a more robust construction with thicker and more durable plates, which allows them to withstand deep cycling better than traditional flooded batteries. This means that they are better suited for applications where they are regularly discharged and recharged, such as in renewable energy systems, electric vehicles, and backup power systems.

EFBs have a higher charge acceptance rate than traditional flooded batteries, which means they can recharge more quickly and efficiently. This can be particularly important in applications where there is limited time to recharge the battery between cycles.

EFBs have a longer service life than traditional flooded batteries due to their improved construction and the use of advanced materials. This means that they can provide reliable performance over a longer period of time, reducing the need for frequent battery replacements.

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