

# PRO-MAX FR-2204

VRLA - 200AH



Unlock the power of sustainable energy with the Fronus FR-2204 Solar Battery, designed to provide you with reliable and efficient energy storage for your home or business. With a commitment to green technology and energy sustainability, Fronus has developed a cutting-edge solution that seamlessly integrates with your solar panel system, offering a dependable and eco-friendly energy storage solution.

## SUPPORTED APPLIANCES



Air Conditioner



Refrigerator



LED TV



Fan



LED Bulb



# PRODUCT SPECIFICATIONS

## VRLA BATTERY 200AH

### TECHNICAL SPECIFICATION

Model Nomenclature	Voltage	Capacity @ C20	Battery Overall Dimensions (± 3 mm)				Battery weight (±5%)	Battery packed weight (±5%)
FR-2204	12V	220Ah	Length	Width	Height (Up to Cover)	Overall Height (Up to Terminal)	63 kg	65.5 Kg
			502	191	397	415		

### ELECTRICAL SPECIFICATION

CAPACITY (Duration)	CAPACITY AMP-HOURS (Ah)			INTERNAL RESISTANCE
@ 400W	20Hr	10Hr	5Hr	7.0 (mΩ)
255~285 Min	220	180	114	

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

### CHARGING INSTRUCTIONS

BOOST CHARGING (Amp)		TRICKLE MODE CHARGING (mAmp)	
STARTING RATE	FINISHING RATE	MINIMUM	MAXIMUM
22	11	168	672

### CONSTANT POWER DISCHARGE PERFORMANCE

MAXIMUM BACKUP DURATION (HH:MM)				
500W	400W	300W	200W	100W
03:30	04:30	06:30	10:30	24:30

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

### CHARGE CHARACTERISTICS (27°C)

Cycle Use	Standby Use
14.40 – 15.0V (-40mV/°C), Maximum Current 30A	13.60 - 13.80V (-20mV/°C)

\*Battery to be recharged in CV mode only

### CHARGE 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

### 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 3% per month at 20°C temperature conditions.	
Rated Capacity at ambient temperature	As per formula: $C_t = C_{27} \{1 + 0.0043(t - 27)\}$	Self-Discharge	Conforms to IS13369-1992

