

# The ELAF Battery Series

E24™

P358E



## Enhanced Lead-Acid Deep Cycle Flooded Tubular Battery with 15 years Floating Design Life.

The ELAF12 battery series is a 12V flooded tubular battery designed for energy storage applications. Its ruggedness, long life, and fast charging capability makes it ideal for solar, wind applications requiring frequent cycling.

The grids of ELAF12 batteries series are thick and casted with innovative alloy to ensure a longer life and greater reliability than traditional Lead-Acid Batteries. A special low temperature vaporous curing process further enhances

the superior qualities of the battery making it ideal for frequent and extended runtime applications where quick recharging is required.

The ELAF Series uses E24 proprietary technology allowing is to reach up to 5,000 Cycles or 15 years of operation when used with E24 Chargers and Inverters.

# Features



- **Robust tubular plates**

Grid plate construction consisting of low antimony with long-life expander material

- **Pasted negative plates**

Grid plate construction consisting of low antimony with long-life expander material

- **Microporous Separators**

Microporous and robust, for electrical separation of the positive and negative plates and optimised for low internal resistance.

- **Safety Vents:**

cells incorporate flame retardant ceramic plugs that filter out any drops of electrolyte from the escaping gases preventing any errant spark or flame from entering the battery.

- **Heavy Duty and Insulated Connectors:**

Fully insulated cable connectors fixed to the terminal having a probe hole on the top for electrical measurement.

- **International Standards:**

In full compliance to IS13369

- **Certifications:**

Battery factory is certified ISO 9001:2015

- **Recyclable**

Used batteries are sent back to the factory for remanufacturing under a recycling plan. Refer to our authorized distributor for details.

- **Low Gassing**

Low gassing due to PbSb1.6SnSe alloy (BS EN 50272-1)

- **Warranty**

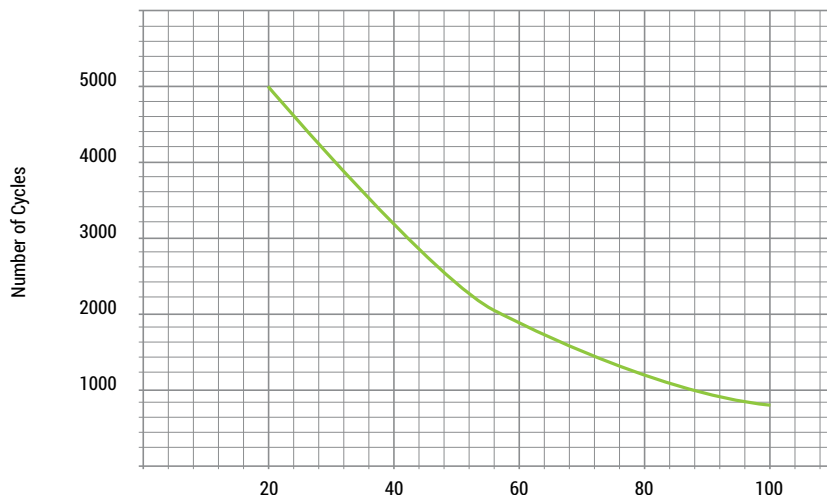
E24 offers up to 36 months of pro-rated warranty on ELAF12 Series if used with E24 Chargers and Inverters. Refer to E24 prorated warranty Terms and Conditions and your Authorized distributor for the applicable warranty in your market.

# Specifications

Constant Power Discharge Characteristics (W) (@ 25 C)										
	C10 (AH)	20HR	10HR	8HR	5HR	4HR	3HR	2HR	1HR	15MIN.
ELAF12-100C2	85	51.0	102.1	121.2	177.3	209.3	253.7	367.6	595.3	1,264.0
ELAF12-120C2	101	61.2	121.3	141.3	204.9	248.8	304.9	441.4	714.4	1,444.0
ELAF12-135C2	118	71.9	142.0	168.1	252.3	297.3	373.9	517.3	823.3	1,612.0
ELAF12-150C2	126	76.5	151.6	176.7	256.2	311.1	381.1	551.8	893.0	1,805.0
ELAF12-180C2	159	96.5	190.7	225.9	338.9	399.3	502.3	694.8	1,106.0	2,165.0
ELAF12-200C2	177	107.2	211.9	251.0	376.5	443.7	558.1	772.1	1,229.0	2,406.0
ELAF12-230C2	203	123.3	243.7	288.6	433.0	510.2	641.8	887.8	1,413.0	2,767.0
ELAF12-250C2	220	134.0	264.9	313.7	470.7	554.6	697.6	965.0	1,535.9	3,007.6

Technical Specifications									
	ELAF12-100C2	ELAF12-120C2	ELAF12-135C2	ELAF12-150C2	ELAF12-180C2	ELAF12-200C2	ELAF12-230C2	ELAF12-250C2	
Nominal Voltage (Vdc)	12								
Normal Operating Range (Vdc)	10.5 - 14.5								
Closed Circuit Initial Charging Voltage (Vdc)	16								
Capacity at C20 (Ah)	100	120	135	150	180	200	230	250	
Maximum Recommended Discharge Current (A)	20	24	27	30	36	40	46	50	
Maximum Charging Current (A)	15	18	20	22	27	30	35	37.5	
Initial / Final Electrolyte Specific Gravity (g/cc)	1.25/1.26								
Optimal Operating Temperature Range (°C)	20-27								
Operating Temperature Range (°C)	15-37								
Dry Weight (Kg)	27.2	29.3	31.1	34.7	41.3	45.9	51	53	
Filled Weight (Kg)	42.3	53.3	56.6	58.6	65.7	68.3	70.5	73.8	
Electrolyte (L)	10.8	20.0	21.6	20.4	20.3	19.5	19	20.5	
Battery Dimensions H x W X D (mm)	255x505x220	418x503x190	418x503x190	418x503x190	418x503x190	418x503x190	418x503x190	418x503x190	
Carton Dimensions H x W X D (mm)	305x546x264	477x507x217	477x507x217	477x507x217	477x507x217	477x507x217	477x507x217	477x507x217	
Standards Compliance	IEC 61427, IEC 60896-2								

## Cycling Performance at 25 °C





# E24 Modular Range Of Products For Building Easy, Flexible & Evolutive Solutions

E24 products dynamically evolve with the lifestyle and work style of its customers while easing the installation process.

E24 products are conceived in modules allowing for an easy upgrade to adjust with the needs of the customers. Being modular and easy to connect E24 products allow installers to easily configure the required modules for an optimal solution while offering easy upgrade options.

## Ordering Information

Ref Number	Description
ELAF12-100C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 100AH @ C20
ELAF12-120C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 120AH @ C20
ELAF12-135C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 135AH @ C20
ELAF12-150C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 150AH @ C20
ELAF12-180C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 180AH @ C20
ELAF12-200C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 200AH @ C20
ELAF12-230C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 230AH @ C20
ELAF12-250C2	Enhanced Lead-Acid (ELA) Flooded Tubular Battery, 12V, 250AH @ C20





[www.e24solutions.com](http://www.e24solutions.com)



ISO 9001:2015



QUALITY STANDARD

