INDUSTRIAL ENERGY

Amara Raja & AMARON Batteries

Main Portfolio Catalogue







UPS · TELECOM · SOLAR · TRACTION · RAILWAYS

11 product groups + 3 LFP battery options

A product-family and selection guide prepared by Alemdar Enerji. It does not replace manufacturer model-specific datasheets. Series images illustrate product families; enclosure and terminal arrangements may vary by model.

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PowerStack

2 V cells · AGM / VRLA



Scalable industrial backup power

Modular battery family for telecom, UPS and solar infrastructure. Cells are combined into modules according to capacity, system voltage and installation requirements.

100–6120 Ah · C10, 1.75 V/cell, 27 °C

- AGM separators and low-resistance plate design
- Modular stacking for flexible installation
- Low self-discharge and strong charge acceptance

2 V refers to cell voltage. Module voltages vary between 6, 12 and 24 V.

AMARON Sleek

12 V · AGM / VRLA · Front terminal



Accessible connections in telecom cabinets

Front-terminal battery series designed for telecom and communications cabinets, combining compact installation with easy terminal access and handling.

100 / 150 / 170 / 190 Ah · C10, 10.5 V, 27 °C

- Front terminals and dual carrying handles
- Low-resistance intercell connections
- 12+ year design float life at 27 °C

Technical summary applies to FTA 100 DB, 150 DB, 170 DB and 190 DB. The image shows the EB family; EB and DB specifications must not be mixed. Design life is not a warranty period.

AMARON Volt

2 V cells · VRLA



Critical backup power for demanding sites

Cell series for sites requiring cyclic operation and partial-state-of-charge performance. Modular installations support a range of backup power requirements.

300–5500 Ah · C10, 1.75 V/cell, 27 °C

- Designed for partial-state-of-charge operation
- Strong charge acceptance after deep discharge
- High energy density and modular installation

Cell voltage is 2 V. Module voltage is 6 or 12 V, depending on the model.

AMARON Quanta

12 V · SMF / AGM / VRLA



Reliable energy for UPS systems

Sealed, valve-regulated lead-acid family for UPS and critical load backup. Selection depends on load and backup time as well as ampere-hour capacity.

7–200 Ah product family · Main ratings at C20

- Radgrid profile for low internal resistance
- Instacharge technology for charge acceptance
- Corrosion-resistant positive-grid alloy

The main technical table covers 26–200 Ah. Smaller capacities and additional models are specified separately.

AMARON Quanta HWS

12 V · VRLA · High-rate



High-rate power for data centers

Designed for applications requiring high power over short discharge periods. Power rating, discharge time and final voltage must be considered together.

388 / 440 / 540 / 730 W/cell · 15 min, 1.67 V/cell

- Designed for short-duration high-power loads
- Low internal resistance and fast recharge
- High energy density for compact installations

These ratings apply to a 15-minute discharge at 1.67 V/cell. Model-specific discharge curves are not included in this overview.

AMARON Quanta HUPS

SMF / VRLA and Tall Tubular variants



Backup for homes, offices and solar systems

The HUPS family includes sealed SMF/VRLA and Tall Tubular variants. Their capacity, maintenance and charging requirements must be evaluated separately.

VRLA: 160 / 200 Ah · Tall Tubular: 12 V, 200 / 220 / 250 Ah

- VRLA design for PSOC and deep discharge
- Tall Tubular plates with acid-circulation formation
- Suitable families for UPS and solar/hybrid applications

Tall Tubular requires maintenance and is a different technology from sealed VRLA. Image shows the HUPS family.

AMARON Solar SMF

12 V · SMF / AGM / VRLA



Cyclic storage for solar systems

Sealed battery family designed for daily cycling and partial-state-of-charge conditions in solar lighting and backup systems.

18–200 Ah · Main table: C20, 1.75 V/cell, 27 °C

- High-density AGM separators
- Radgrid profile for low internal resistance
- Instacharge technology for charge acceptance

The main table covers 26–200 Ah. The 18 and 84 Ah options are listed separately.

AMARON Solar Tubular

Tubular plate · Solar



Cyclic power for solar energy

Tubular-plate series for repeated charge and discharge. Daily consumption, PV generation and charge-controller settings must be considered together.

75 / 100 / 120 / 150 / 180 Ah

- High-pressure spine casting
- Plate design supporting charge acceptance
- Spine design addressing corrosion

Capacity options follow the official product page. Solar SMF documentation does not apply to this tubular variant.

AMARON Brute

2 V cells · Tubular traction



Power for material handling

Tubular traction cells for electric forklifts and industrial handling equipment. DIN and BS options must match the battery compartment and duty cycle.

DIN and BS cell options · Capacity at C5

- Tubular positive plates and robust gauntlets
- Controlled formation for consistent cell performance
- Connections and cell design supporting maintenance

Confirm cell dimensions, total battery voltage and maintenance requirements against the equipment.

Genpro

VRLA · Integrated charging solution



Starting power for diesel generators

Integrated solution combining one or more 12 V VRLA batteries, a switched-mode power supply and an enclosure for diesel-generator starting.

Operating range: −18 °C to +55 °C

- Preassembled battery and charger
- VRLA construction without routine water topping-up
- Integrated charger input range: 150–320 V

Confirm the current model and charger compatibility during quotation.

AMARON Quanta S-XEL

12 V · Tubular plate



UPS and industrial backup

Tubular battery series manufactured using acid-circulation formation and automated connection processes for industrial backup applications.

12 V · 75–180 Ah UPS portfolio

- High-pressure plate-spine casting
- Wet pasting and automated cast-on-strap
- Vent design with flame arrestor

This is a product-family overview; a HUPS Tall Tubular brochure must not be treated as S-XEL documentation.

Teknik seçim / Technical selection

Compare capacities at the same discharge duration, end voltage and temperature. Assess load profile, required backup time, charger and installation space together. Model availability and delivery are confirmed during quotation.

0216 771 95 39
selcuk@alemdarenerji.com

48 V LFP battery solutions

LiFePO□ · 19-inch rack · RS485 · BMS · IP20

100 Ah LFP / AS0480048-V1

Operating voltage: 42–54,5 V
Charge / discharge current: 50 A standard 100 A maximum
Dimensions (D × W × H): 440 × 482,6 × 133 mm
Weight: 40 ± 1 kg
Mounting / protection: 19 inch rack / IP20

150 Ah LFP / AS048150

Operating voltage: 42–54,5 V
Charge / discharge current: 60 A standard 100 A maximum
Dimensions (D × W × H): 530 × 482,6 × 133 mm
Weight: 55 ± 1 kg
Mounting / protection: 19 inch rack / IP20

200 Ah LFP / AS048200

Operating voltage: 42–54,5 V
Charge / discharge current: 60 A standard 100 A maximum
Dimensions (D × W × H): 490 × 482,6 × 222 mm
Weight: 78 ± 1 kg
Mounting / protection: 19 inch rack / IP20

Cycle life: ≥6,000 cycles (80% depth of discharge, 25 °C). Charging: 0–60 °C; discharging: −20–60 °C. System compatibility and protection must be assessed for installations of up to 15 parallel units.

Source scope: Amara Raja Industrial product pages; Alemdar Enerji product portfolio and model technical summaries.

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