

Technical specifications

The supplier shall supply only the following batteries and AC-DC Chargers to CARC/ Amman civil airport warehouse with the following specifications:

1. 12V-2.4A battery:

Item	Specifications
Type	Valve Regulated Lead Acid (VRLA)
Nominal Voltage	12 V
Nominal Capacity	2.4 Ah
Dimensions	178 x 35 x 66 mm
Lifetime	>5 years
Brand	Well-known brand, Vietnam preferred
Production Date	at most 4 months Max
Warranty	2 years
Quantity	27

2. 12V-9Ah battery:

Item	Specifications
Type	Valve Regulated Lead Acid (VRLA)
Nominal Voltage	12 V
Nominal Capacity	9 Ah
Dimensions	151 x 65 x 94 mm
Lifetime	>5 years
Brand	Well-known brand, Vietnam preferred
Production Date	at most 4 months Max
Warranty	2 years
Batteries Connection	Terminal connectors are required
Quantity	56

3. 12V-18Ah battery:

Item	Specifications
Type	Valve Regulated Lead Acid (VRLA)
Nominal Voltage	12 V
Nominal Capacity	18 Ah
Dimensions	181.5 x 77 x 167.5
Lifetime	>5 years
Brand	Well-known brand, Vietnam preferred
Production Date	at most 4 months Max
Warranty	2 years
Quantity	6

4. 12V-65Ah battery:

Item	Specification
Battery type	Valve Regulated Lead Acid (VRLA), AGM Technology
Nominal Voltage	12 V
Nominal Capacity	≥ 65 Ah
Lifetime	>5 years
Brand	Well-known brand, Vietnam preferred
Production Date	at most 4 months Max
Warranty	2 years
Batteries Connection	Terminal connectors are required
Quantity	28

5. 12V-26Ah battery:

Item	Specification
Battery type	Valve Regulated Lead Acid (VRLA), AGM Technology
Nominal Voltage	12 V
Nominal Capacity	26 Ah
Lifetime	>5 years
Brand	Well-known brand, Vietnam preferred
Production Date	at most 4 months Max
Warranty	2 years
Batteries Connection	Terminal connectors are required
Quantity	40

6. Li-ion rechargeable battery:

Item	Specifications
Type	Lithium-ion rechargeable battery
Battery model	Saft (1s1p INT 174565 SAS)
Nominal Voltage	3.75 V
Rated Capacity	4.8 Ah
Rated energy	18Wh
Brand	Saft/ France
Quantity	8

7. AC-DC Charger:

Item	Specifications
Type	Switching mode battery charger
Type of batteries	Charger for Valve Regulated Lead Acid (VRLA) batteries
Protection	Reverse polarity Short circuit Input over/under voltage Output overvoltage Over temperature shutdown.
Indicators	3 color LED loading indicator
Output Nominal voltage	24V
Output current	8-12 A
Input voltage	100-240 VAC, 50 Hz
Charging algorithm	Three-stage (bulk, absorption, float) with automatic transition
Efficiency	>85%
Quantity	4

Table of Quantity

Item	Quantity
12V-2.4Ah	27
12V-9Ah	56
12V-18Ah	6
12V-26Ah	40
12V-65Ah	28
Li-ion battery	8
AC-DC Charger	4

- **Note:**

1. The supplier shall supply, install, and commission 40 batteries of 12V-26Ah batteries. A buyback price for existing batteries (12V-9Ah batteries QTY=80) located in QAIA shall be provided and deducted from the total price.
2. The bidder shall provide a buyback price of existing batteries for the 12V-65Ah batteries (QTY= 28), which shall also be deducted from the total price.