EUR10012 ECO

EURONET ECO SERIES GEL BATTERY – 12V 100Ah

Value Deep-Cycle Gel | Solar PV, UPS & Telecom Backup



CAPACITY (10HR, 25°C)	NOMINAL VOLTAGE
100Ah	12V
MAX. DISCHARGE (5S)	**INTERNAL RESISTANCE**
800A	≈ 3.5 mΩ
MAX. CHARGE CURRENT	**NET WEIGHT**
25.0A	25kg

OVERVIEW

The EURONET EUR10012 ECO is a value-focused 12V 100Ah sealed deep-cycle gel battery for solar PV systems, UPS backup and general-purpose critical power. It is rated 100Ah at the 10-hour rate to 1.75V/cell at 25°C, with an internal resistance of about 3.5mΩ, an 800A (5 sec) peak discharge and a 25.0A maximum charge current. Gel electrolyte prevents acid leakage and removes the need for water topping, while the ABS UL94-HB case (UL94-V0 on request) and low-pressure venting suit daily cycling from -40°C to 50°C.

KEY FEATURES

800A Peak Discharge
Internal resistance of about 3.5mΩ delivers 800A for 5 seconds for UPS start-up and backup loads

25.0A Maximum Charge Current
Charges at up to 25.0A for fast recovery after deep discharge in solar PV and UPS backup systems

Maintenance-Free Gel
Gel electrolyte prevents acid leakage and removes the need for water topping in any orientation

Deep Cycle Performance
Built for repeated deep discharge with high charge acceptance and minimal capacity loss over time

Wide Temperature Range
Discharge from -40°C to 50°C and charge from -20°C to 50°C, for harsh off-grid and telecom field sites

ABS Flame-Retardant Case
ABS UL94-HB housing as standard, with a UL94-V0 rating available on request for safety needs

TECHNICAL NOTE

12V, 100Ah @ 10hr to 1.75V/cell at 25°C, 6 cells. Max. discharge 800A (5 sec), internal resistance about 3.5mΩ, max. charge 25.0A. Float 13.50–13.80V, equalisation 14.70–15.00V @ 25°C. Discharge -40°C to 50°C, charge and storage -20°C to 50°C. Terminal T14, net weight 25kg. ABS (UL94-HB) case, UL94-V0 on request. CE, ISO 9001:2015.

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EUR10012 ECO

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EUR10012 ECO
Series	ECO Series Gel Battery
Battery Type	Sealed VRLA gel, deep cycle
Nominal Voltage	12V
Cells Per Unit	6
Rated Capacity	100Ah @ 10hr to 1.75V/cell, 25°C
ELECTRICAL	
Max. Discharge Current	800A (5 sec)
Internal Resistance	≈ 3.5 mΩ
Max. Charge Current	25.0A
End Voltage	1.75V/cell
CONSTANT-CURRENT DISCHARGE (TO 1.75V/CELL, 25°C)	
30 Min Rate	88.9 A
1 H Rate	55.0 A
3 H Rate	25.0 A
5 H Rate	17.0 A
10 H Rate	10.0 A
20 H Rate	5.20 A

PARAMETER	SPECIFICATIONS
CHARGING	
Float Charge	13.50–13.80V @ 25°C
Equalisation / Cycle Service	14.70–15.00V @ 25°C
Cycle-use Set Point	2.475V/cell @ 25°C
Standby Set Point	2.275V/cell @ 25°C
Constant-voltage Charge	14.7–15.0V · 5–11h · max. 0.25CA
Constant-current Charge	0.1CA × 5h
Fast Charge	0.25CA × 1.7h
PHYSICAL	
Terminal	T14
Product Dimensions	Not available
Box Dimensions	330 × 172 × 225 mm
Net Weight	25kg
Gross Weight	25.5kg
Venting	Low-pressure venting system
ENVIRONMENT & LIFE	
Discharge Temperature	-40°C to 50°C
Charge Temperature	-20°C to 50°C
Storage Temperature	-20°C to 50°C
Normal Operating Temp.	25°C ± 5°C
Self-discharge	Storable over 6 months at 25°C
Storage Recharge	At least every 6 months
Cycle Life	Not available
CERTIFICATION	
Certifications	CE · ISO 9001:2015
Container	ABS (UL94-HB) · UL94-V0 on request

**Specifications are subject to change without prior notice.*

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