EUR10012

EURONET BLUE GEL BATTERY – 12V 100Ah

Sealed Deep-Cycle Gel | Solar, UPS & Data Centre Backup



CAPACITY (10HR, 25°C)	NOMINAL VOLTAGE
100Ah	12V
MAX. DISCHARGE (5S)	**INTERNAL RESISTANCE**
800A	≈ 3.7 mΩ
MAX. CHARGE CURRENT	**NET WEIGHT**
25.0A	29.5kg

OVERVIEW

The EURONET EUR10012 is a 12V 100Ah sealed deep-cycle gel battery from the Blue Series, built for solar systems, UPS infrastructure, IT systems and data centre backup. It is rated 100Ah at the 10-hour rate to 1.75V/cell at 25°C, with an internal resistance of about 3.7mΩ, an 800A (5 sec) peak discharge and a 25.0A maximum charge current. The non-spill VRLA design needs no water topping, discharges from -40°C to 50°C and offers up to 2000 cycles at 50% depth of discharge. Its 325×172×215mm body and T14 terminal suit server-room battery racks.

KEY FEATURES

800A Peak Discharge
Internal resistance of about 3.7mΩ delivers 800A for 5 seconds for UPS start-up and heavy loads

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

Deep Cycle Gel Electrolyte
Advanced gel electrolyte sustains its capacity across repeated deep discharge and recovery cycles

Maintenance-Free VRLA
Non-spill sealed VRLA construction with no water topping or periodic electrolyte service needed

Wide Temperature Range
Discharge from -40°C to 50°C and charge from -20°C to 50°C, for server rooms and outdoor enclosures

Long Cycle & Shelf Life
Up to 2000 cycles at 50% depth of discharge, and stores for over 6 months at 25°C before recharge

TECHNICAL NOTE

12V, 100Ah @ 10hr to 1.75V/cell at 25°C, 6 cells. Max. discharge 800A (5 sec), internal resistance about 3.7mΩ, 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 29.5kg. Up to 2000 cycles @ 50% DoD. ABS (UL94-HB) case. CE, ISO 9001:2015.

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EUR10012

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EUR10012
Series	Blue 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	≈ 3.7 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 (2.45–2.50V) @ 25°C
Standby Set Point	2.275V/cell (2.25–2.30V) @ 25°C
Max. Charge Current (Cycle)	0.25C
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	325 × 172 × 215 mm
Box Dimensions	330 × 178 × 245 mm
Net Weight	29.5kg
Gross Weight	30kg
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
Cycle Life	Up to 2000 cycles @ 50% DoD
Self-discharge	Storable over 6 months at 25°C
Storage Recharge	At least every 6 months
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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