RNC12-300

SERIES RNC · NICKEL-CADMIUM

Extreme reliability in harsh conditions. The railway and industrial standard.

The RNC12-300 is a 12 V, 296 Ah (5-hour rate) NiCd battery from the Rekoser Nickel-Cadmium series. It measures 115 × 194 × 309 mm and weighs 10.6 kg. It stores 3.55 kWh. Extreme reliability in harsh conditions. The railway and industrial standard. Typical applications: Electrical Substations, Telecommunications and Base Stations and Railway Signaling and Infrastructure.

Formerly **RKF12-300**.

Nominal Voltage	**12 V**
Capacity (25ºC)	**296 Ah (C5)**
Energy	**3552 Wh**
Weight	**10.6 kg**
Dimensions	**115 × 194 × 309 mm**

MAIN ADVANTAGES

- ✓ **Fibre structure:** Fibre nickel-cadmium electrodes
- ✓ **High currents:** Very high charge and discharge rates
- ✓ **No topping up:** No electrolyte replacement needed
- ✓ **Harsh conditions:** Withstands temperature and vibration

20 YEARS LONG LIFE DESIGN **2 YEARS** **WARRANTY**

** Subject to charge and temperature parameters stipulated in this datasheet.*

MAIN APPLICATIONS

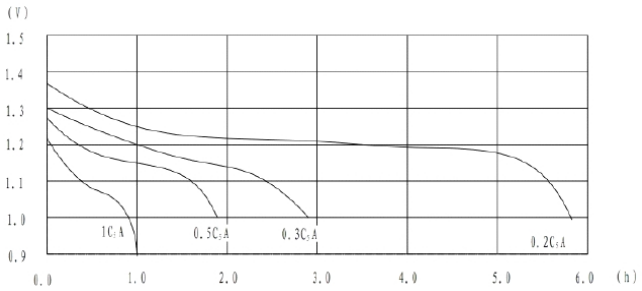
- ELECTRICAL SUBSTATIONS
- TELECOMMUNICATIONS AND BASE STATIONS
- RAILWAY SIGNALING AND INFRASTRUCTURE

GRAPHICS (25°C)

Constant Discharge Ratings (A) at 25ºC

F.V / Time	1SEC	5SEC	1MIN	5MIN	30MIN	1HR	3HR	5HR	10HR
1.14 V	552A	516A	429A	319A	170A	153A	74.1A	47.8A	25.3A
1.10 V	595A	562A	493A	402A	217A	190A	86.8A	55.2A	29.6A
1.05 V	630A	609A	552A	482A	254A	221A	92.6A	57.6A	30.8A
1.00 V	699A	677A	626A	569A	297A	248A	96.2A	59.2A	31.6A

DISCHARGE CHARACTERISTIC 25ºC



SPECIFICATIONS

Nominal Voltage	12 V
Capacity (25ºC)	296 Ah (C5)
Energy	3552 Wh
Cell number	10
Charge Voltage (25°C)	Cycle use: 1.0-1.2V Float use: 1.38V +-0.01V
Internal Resistance	0.36 mΩ
Capacity Affected by Temperature	40 °C: 102 %, 25 °C: 100 %, 0 °C: 85 %, -15 °C: 65 %

CONSTRUCTION

Component	Material
Container	ABS/PP
Cover	ABS/PP
Electrolyte	Potassium Hydroxide
Negative	Cadmium
Positive	Nickel oxide-hydroxide
Safety Valve	Rubber
Terminal	Nickel-Clad Steel

QUICK INSTALLATION GUIDE

To ensure optimal performance and maximize the lifespan of your **REKOSER RNC12-300** battery, follow these assembly and connection guidelines.

1. SPACE AND DIMENSION VERIFICATION

Before proceeding, ensure the receptacle or cabinet of your equipment complies with the unit's physical measurements:

Length: 115 mm

Width: 194 mm

Height: 309 mm

Total Height: 309 mm

Weight: 10.6 kg

2. TERMINALS AND POLARITY

Polarity: Check the positive and negative markings on the battery before connecting, to prevent short circuits.

3. CHARGE PARAMETERS

Cycle use: 1.0-1.2V

Float use: 1.38V +-0.01V

4. SAFETY AND STORAGE

Maintenance: Fibre structure: no electrolyte replacement needed.

Electrolyte: It is alkaline: do not use tools or utensils used with lead batteries.

Position: Always upright.

Storage: Store in a cool and dry place.

NEARBY MODELS

RNC12-400 (12 V · 407 Ah) · See all RNC series models

Specialized Technical Support

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