

NOVATRA

Power Made Simple

Reflex II

AC Retrofit Battery 5.12kWh

Maximise Self-Consumption

Dynamic / Time-of-Use Tariff Optimisation

Backup Power / UPS Function

Integrated AI & BMS

The Reflex II is a 5.12 kWh retrofit AC-coupled storage system that can be installed without any inverter replacement.

Built for European grid requirements, its AI engine reads dynamic tariff APIs to charge at low-price windows and discharge at peak rates, turning price volatility into savings.

Zero feed-in control keeps every kWh on-site to optimize self-consumption.

A 10 ms UPS transfer and multi-layer BMS protection meet the strictest European safety certifications.

FLEXIBLE

Compatible with pre-existing solar systems

<5 minutes installation

Up to 6 units in parallel (30.72 kWh)

SAFE

Tier 1 LFP cells

Multi level Protection

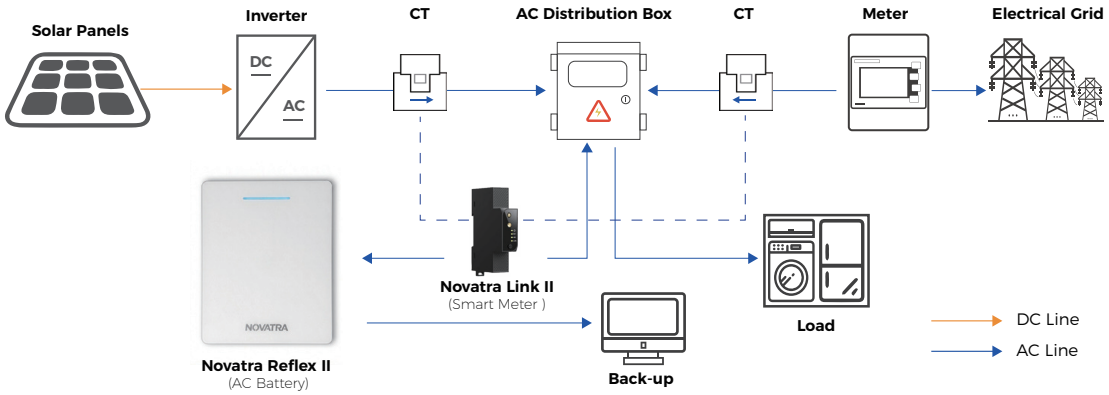
Integrated BMS

INTELLIGENT

Evolutive AI for fast ROI

Real-time monitoring via Voltisia app

Compatible with Novatra Link II / Shelly smart meter



Applications

Self-Consumption
Time-of-Use
Dynamic Tariff
Arbitrage

Features

Virtual Power Plant
Zero Feed-In
Emergency Backup
OEM Back-end Platform

NOVATRA

BATTERY

Cell Chemistry	LiFePO4 3.2V-100Ah
Rated Energy Capacity	5,120 Wh
Operating Voltage Range	44.8 – 58.4 V
Max. Charging / Discharging Current	60 A
Parallel Expandability	Up to 6 units in parallel (30.72 kWh max.)

AC PARAMETERS

Grid Type	Single-Phase
Nominal Output Voltage (Grid & Back-up)	230 V AC
Nominal Voltage Range (Grid)	184 – 253 V AC
Nominal Grid Frequency (Grid & Back-up)	50 Hz
Grid Output Power	Default : 800W / Configurable Max : 2500W*
Rated Grid Output Current	Default : 3.48 A (Default) / Configurable Max : 10.87 A*
Power Factor (Grid)	> 0.9
Current Harmonic Distortion (THDi)	< 3 %
Connection Type	Single-Phase (L / N / PE)

AC OFF-GRID (BACKUP) PORT

Rated Output Frequency	50 Hz
Voltage Harmonic Distortion	< 2 %
UPS Switchover Time	≤ 10 ms

GENERAL INFORMATION

Dimensions (L × W × H)	503 × 176 × 615 mm
Weight	55 ± 2 kg
Product Warranty	10 years / 6,000 cycles at 25 ˚C 90% DoD
Design Lifetime	> 15 years
Ingress Protection Rating	IP65
Operating Temperature — Charging	Charging : 0 ˚C to +57 ˚C / Discharging –20 ˚C to +60 ˚C
Max. Operating Altitude	2,000 m
Cooling Method	Natural Convection
Relative Humidity (Operating)	5 – 95 % RH, Non-Condensing
Acoustic Noise Level	< 30 dB(A)
Communication Interfaces	Wi-Fi (2.4 GHz), Bluetooth, RS-485
Display	LED indicator lights
Installation Type	Wall-mount or floor-standing
Protection	Overcurrent Protection, Overvoltage Protection, High-Temperature Protection, Fire Prevention Design

LOGISTICS

Units / Pallet	14 units
Pallet Dimensions	1100*750*2150
Pallet Weight	850 kg
Units / 40HQ Container	420 units

STANDARDS & COMPLIANCE

Grid Compliance	EN 50549-1/10, C10/11, VDE 4105
Safety	IEC 62477, IEC 62619 - EN 18031-1
Electromagnetic & Radio	IEC/EN 61000, CE-NB, CE-RED
Legal & Environmental Requirements	RoHS, REACH, WEEE, Battery Directive, IP-GB/T 4208-2017
Transportation	UN38.3, SDS, Dangerous Goods, Marine Certificate

* Activation of this function must comply with local regulations and be performed by qualified technicians!

Eco Green Energy Limited
Add: No. 8 Wuyi Road, Sutong Science and Technology Industrial Park, Nantong, jiangsu
Tel: +86 0513 66690088
Email: info@eco-greenenergy.com

eco-greenenergy.com
Specifications included in this datasheet are subject to change without prior notice. Refer to our website for further information or contact one of our sales staff.