

Indrome is a unique energy storage appliance able to double its own power whenever you want.*

*** Just by means of an upgrade.**



And just in case that is not enough here are 10 additional reasons to make you understand the difference between Indrome and the other storage devices available on the market.

1

Voltage sensors, current sensors and temperature sensors for individually checking the charge, the output by the renewable sources and the charge absorption.

2

Microprocessor with PLC features which can:
> Customize programs designed for the specific input/output needed by users
> Modify the battery charging curve according to the changes of temperature in the battery pack (internal sensor).

3

Internal tracks made of copper bars are able to endure high currents without risks of breakage.

4

Energy multi-inputs from renewable sources. System output in bypass mode - 100%

5

Isolation stage on the voltage multiplier during the change from 48 Vdc to 330 Vdc. Charge isolation transformer.

6

Short circuit control by limiting the current peaks up to double the voltage than the rated voltage. In case of anomaly the powering section is switched off while the controlling section is kept "activated" dealing with the problem.

7

Internal CAN transmission for controlling 3 devices: battery charger, voltage multiplier and inverter.

8

1 standard MPPT. The second MPPT (optional) requires the use of a complete battery charger which can also allow for better and individual battery control.

9

Fully programmable charge cycles for flooded lead-acid batteries: IWa + holding (also with a fast cycle).

10

Fully programmable charge cycles for sealed batteries (GEL/AGM):
> IU+ holding. This is the normal cycle under standard operating conditions.
> IUla. This is the periodical cycle for a greater efficiency of the battery.

INDROME

H03M1

H06M1

H09T1

H18T1

PV INPUT

MPPT Range

1 MPPT (the second one is optional)

Max. input current

65 A *

65 A **

195 A ***

195 A ***

Voltage Input range

70 - 120 V DC

OTHER INPUTS

Other sources

Aeolian – Diesel/Gas power unit

Input Voltage

70 - 120 V DC

AC OUTPUT

Output active power (W)

3000

6000

9000

18000

Output voltage

230 Vac +/- 10 % Sinusoidal, single-phase

400 Vac +/- 10% Sinusoidal, three-phase

Overload

130% per 60 sec. – short circuit control

PERFORMANCE

Inverter

≥ 93%

PV Efficiency DC/DC

≥ 92%

OPERATION

Input sources

Alternated and smart use of input energy sources available

UPS operation

Total discharge when off-grid

Protections

Overload – Short circuit – Overheating – Total discharge

By-Pass

Automatic ****

Emergency By-Pass

Automatic and/or Manual control ****

TECHNICAL FEATURES

Dimensions (HxWxD)
(battery pack excluded)

870x450x550

870x450x550 con 1 MPPT
970x450x655 con 2 MPPT

As per drawing

As per drawing

Operating Temperature

-5 / 40°C

IP Code

IP 20

Weight (battery excluded)

KG. 60

KG. 80

As per drawing

As per drawing

REFERENCE RULE

Conformity to the standard

EN 62040 – 2 CEI – CE

STORAGE DATA

Battery type

AGM – Gel Lead – Wet cell

Storage capacity

From 9 kWh/g to 16.5kWh/g

From 27 kWh/g to 49.5kWh/g

Cycles

From 700 to 2800 according to the type and % of residual charge

Residual charge

50% - 30%

Charge cycle

Programmable, with voltage, current and temperature control

Safety

Battery temperature control for optimizing the charge/discharge operation

Battery Pack weight

From 270 Kg. (AGM type) – 620 Kg (GEL LEAD type)

Internal operating temp.

0/50° C

INPUT / OUTPUT

Processor

Controlling CPU

Input

3 digital inputs + 1 analog input

Output

1 NC per Bypass – 3 programmable NA

Ports

USB – Rs 485-CAN

COOLING SYSTEM

Main System

Heat sinks

Secondary System

Aeration grids

Overheating

Forced ventilation

* Photovoltaic system power recommended for optimal operation: from 3000 to 4500 Watt
** Photovoltaic system power recommended for optimal operation: from 4500 to 6000 Watt

*** Photovoltaic system power recommended for optimal operation: according to the plan
**** It needs an external system to be wired by a technician