Power supply for PULSIA station

MAIN SUPPLY

Item : 003347

Main features

- Power supply for the Pulsia station
- Easily attached to the structure
- Double enclosure

The mains power supply provides the energy necessary to power a PULSIA weather station. As the only means of energy supply or combined with a solar generator, it can meet the energy needs of the entire station when the solar contribution is insufficient or when a sensor requires a heating system to prevent freezing or fogging.

The power supply is used to supply energy to a PULSIA weather station and its optional components such as the heating of certain sensors. This configuration provides 6 V and 400 mA output.

Robust

The equipment is protected from the environment thanks to its double IP66 protection index box.

All cables entering and leaving the power supply are either protected by passing through the PULSIA structure or in electrical sheaths in order to limit external aggressions (animals, UV, damage)

Easy installation

Delivered pre-wired, the power supply unit is easily attached to the PULSIA T-shaped structure using the fixing clamps provided. So there's no need for civil engineering or additional support!

Combined with the PULSIA

The mains power supply can be combined with the solar generator supplied with the PULSIA station in order to cope with possible power cuts. In all cases, the mains supply and/or the solar generator supply the battery that will provide the station with energy so that it has a buffer energy stock.

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Housing

General

General	Waterproof box 8 modules grey IP65 + terminal block
Assembly of the system	DIN Rail
Function	Empty box
Color	Grey
Packaging	Film

Environment

Operating temperature	-5 to + 50 °C
IP protection	IP 20
Shock resistance	Yes
Resistance to fire	850 °C
Resistance to UV	Yes
Storage temperature	25°C

Technical characteristics

Composition	Empty box with earth terminal block
Material	Polystyrene

Standards

Warranty	2 Years
CE certification	Yes
NF certification	No
ROHS	Compliant

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SAS with a capital of 70000€ | RCS : Evry B 329 221 980

MAIN SUPPLY

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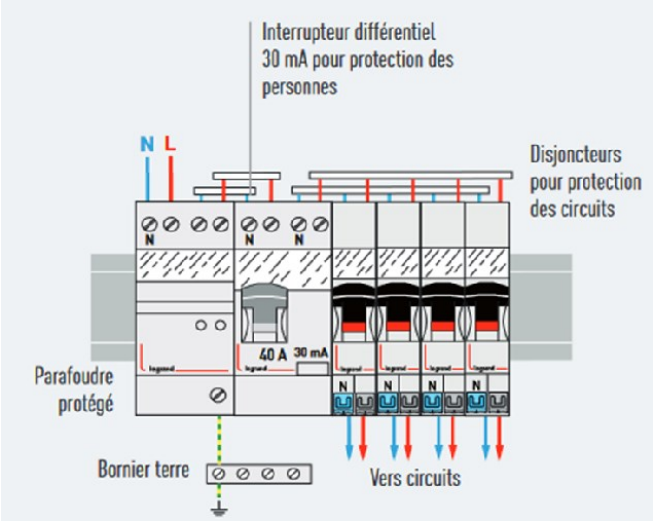
Lightning arrestor

General

Form of the TT network	Yes
Number of conductors (without ground)	2
Rated discharge current (8/20)	10 kA
Rated AC voltage	230 V
Tension continue la plus élevée CA	275 V

Protection

Level of protection	1,2 kV
Protection level L-N	1 kV
Integrated auxiliary fuse	Yes



Circuit breaker

Technical description

Supply	DC
Voltage	230 V
Assigned current	2 A

Number of poles	2
Number of protected poles	1
Rated insulation voltage	250 V
Instantaneous triggering feature	C
Rated differential breaking capacity	3000 A
Rated short circuit current	3000 A
Trigger mode	Magnetothermal
Protection	IP 20

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MAIN SUPPLY

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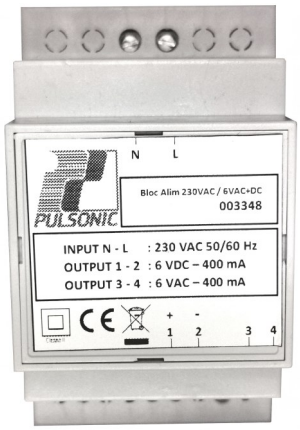
Power supply 230VAC / 6VAC+DC



General	Item : 003348
Input	230 VAC
Output	2
Output 1-2	6 VDC—400 mA
Output 3-4	6 VAC—400 mA
Electrical insulation	4 kV
Dimensions	65.2(H)x89.4(L)x53.4(W)

Differential switch

Technical specifications	
Input	230 V
Assigned current	40 A
Type of current	AC
Number of poles	2
Rated insulation voltage	250V
Rated impulse withstand voltage	4000V
Rated pulse resistance voltage	630A
Rated operating differential current	30mA
Trigger mode	Differential current
Grid distance	55mm

Environment	
Operating temperture	-5 to 50°C
Protection	IP20

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MAIN SUPPLY

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Double enclosure

General

General	Waterproof enclosure
Assembly of the system	Metal clamp
Function	Empty box
Color	Beige

Environmental features

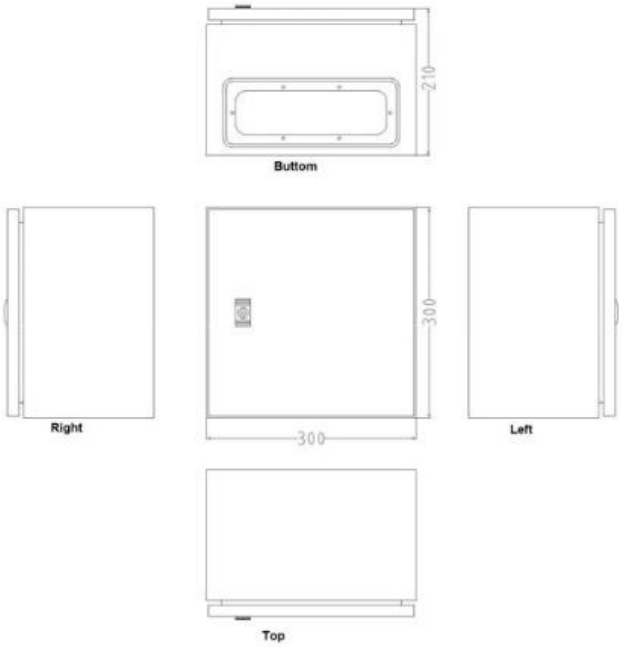
Protection class	IP66
Against mechanical impact	IK10

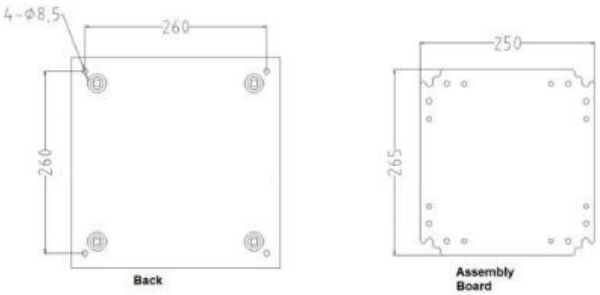
Technical characteristics

Composition	Empty box with ground terminal block
Material	Steel
Dimensions	600 x 400 x 300 mm
Interior cabinet dimensions	300 x 300 x 210 mm
Body and door thickness	1,2 mm
Thickness of mounting plate	1,5 mm

Interfaces

3 cable glands	M16
1 cable gland	M20





Metal collar for fixing the cabinet to the PULSIA structure

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