

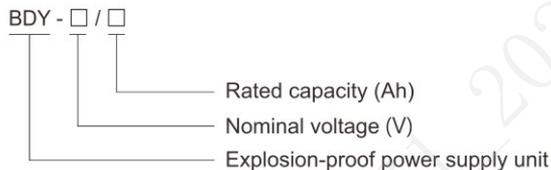
## Solar Lightings

### BDY Series Explosion-proof Power Supply Unit



- ◆ Explosion protection to
  - CENELEC
  - IEC
  - NEC
- ◆ Can be used in
  - Zone 1 and Zone 2
  - Class I, Zone 1 and Zone 2
  - Class I, Division 2, Groups A, B, C, D
- ◆ The enclosure is precision-manufactured from high-quality stainless steel (304/316L), offering excellent corrosion resistance.
- ◆ Equipped with an explosion-proof vent valve to promptly expel hydrogen gas generated by the battery, preventing hydrogen concentration from reaching explosive limits.
- ◆ Internally features valve-regulated sealed lead-acid batteries and enhanced safety terminal connectors.

#### Catalogue number logic



#### Selection table

Type / Ordering code	Nominal voltage (V)	Rated capacity (Ah)	Enclosure type	Weight (kg)	Type / Ordering code	Nominal voltage (V)	Rated capacity (Ah)	Enclosure type	Weight (kg)	
BDY-12/20	DC12V	20	Type I	23.5	BDY-24/20	DC24V	20	Type I	29.5	
BDY-12/24		24		24.5	BDY-24/24		24		Type II	38.0
BDY-12/26		26		25.5	BDY-24/26		26			39.5
BDY-12/28		28		25.5	BDY-24/28		28			39.6
BDY-12/33		33		28.0	BDY-24/33		33			45.0
BDY-12/40		40		29.5	BDY-24/40		40			48.0
BDY-12/55		55		33.0	BDY-24/55		55			55.0
BDY-12/65		65		44.0	BDY-24/65		65			65.0
BDY-12/80		80	46.0	BDY-24/80	80		69.0			
BDY-12/90		90	50.0	BDY-24/90	90		77.0			
BDY-12/100		100	54.0	BDY-24/100	100		85.0			
BDY-12/120		120	64.0	BDY-24/120	120		105.0			
BDY-12/135		135	64.0	BDY-24/135	135		105.0			
BDY-12/150		150	67.0	BDY-24/150	150		111.0			
BDY-12/180		180	101.0	BDY-24/180	180		154.0			
BDY-12/200		200	108.0	BDY-24/200	200		Type III	168.0		
BDY-12/230		230	111.0	BDY-24/230	230			176.0		
BDY-12/250		250	113.0	BDY-24/250	250			178.0		

**Note:** The product is supplied according to "Type/Ordering code" in the table with mounting accessories.

## Zones 1&2



## Solar Lightings BDY Series Explosion-proof Power Supply Unit

### Technical data

#### Explosion-proof Power Supply Unit BDY-□/□

##### Explosion protection

Global (IECEX)	IECEX (applied for)
Gas	Ex eb IIC T5 Gb
Europe (ATEX)	ATEX (applied for)
Gas	⊕ II 2 G Ex eb IIC T5 Gb

##### Certificates

IECEX; ATEX

##### Conformity to standards

EN 60079-0, EN 60079-7, IEC 60079-0, IEC 60079-7

##### Material

Enclosure	Stainless steel
Exposed fastener	Stainless steel

##### Rated capacity (Ah)

DC 12V, DC 24V

##### Nominal voltage (V)

20Ah, 24Ah, 26Ah, 28Ah, 33Ah, 40Ah, 55Ah, 65Ah, 80Ah, 90Ah, 100Ah, 120Ah, 135Ah, 150Ah, 180Ah, 200Ah, 230Ah, 250Ah

##### Degree of protection

IP54

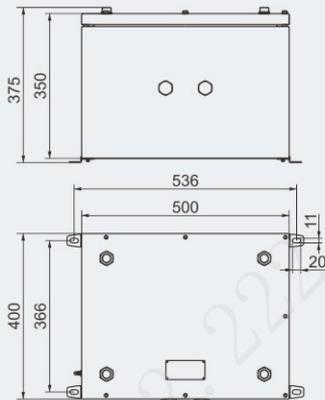
##### Ambient temperature

-20°C~+55°C

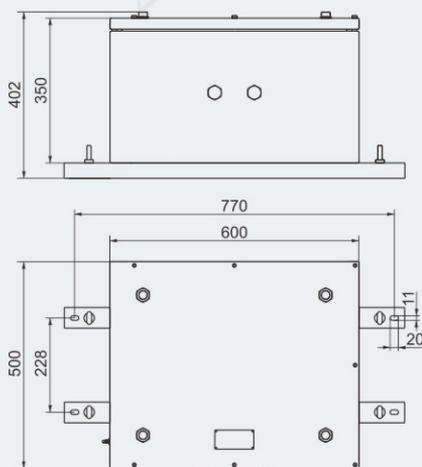
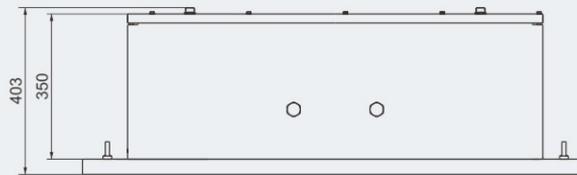
##### Internal & external earthing

M5/M8

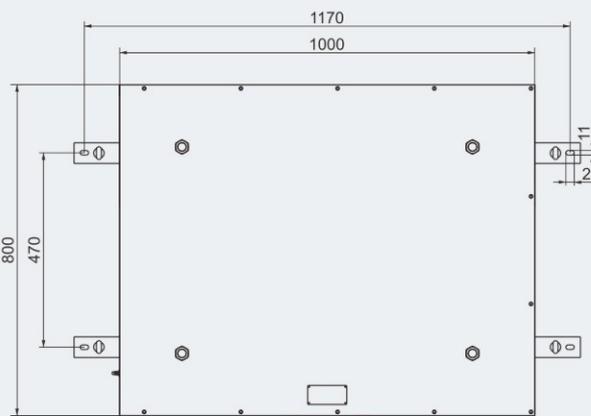
### Dimension drawings (all dimensions in mm) - subject to alteration



Type I



Type II



Type III

