> Mechanical characteristics

Boxes	EPV version	Size W x H x D (mm)	Materials	Protection rating	CdA
Cabinet 	EPV-V 5K M 2P EPV-V 5R M 2P EPV-V 5S M 2P EPV-2L 5L M 2P EPV-2L 5R M 2P	cabinet only : 210 x 629* x 130 with vandal-proof cover : 210 x 721 x 130	Aluminium	IP66 / IK10	0.301
Cabinet with SUN SHIELD casing	EPV + vandal-proof cover + A SUN SHIELD EPV PM	248 x 721 x 160	Aluminium	IP66 / IK10	0.350

* including cable gland height: 33 mm

Weight (kg)	EPV-V 5K M 2P	EPV-V 5R M 2P	EPV-V 5S M 2P	EPV-2L 5R M 2P	EPV-2L 5L M 2P	A SUN SHIELD EPV PM
	13.1 kg	17.1 kg	17.1 kg	17.1 kg	17.1 kg	0.91 kg

Installation	Wall, post or pull box mounting Pack to be installed once the cabinet is mounted on the support Plug and play product
Thermal management	Aluminium with fins: Optimised heat exchange surface Uniform heat distribution over the entire surface when required: No hot spots
Camera installation	Removable cable cover plate for the mounting of a dome camera with a maximum diameter of 190 mm and a maximum weight of 4 kg (camera not included). Holes must be drilled as required.

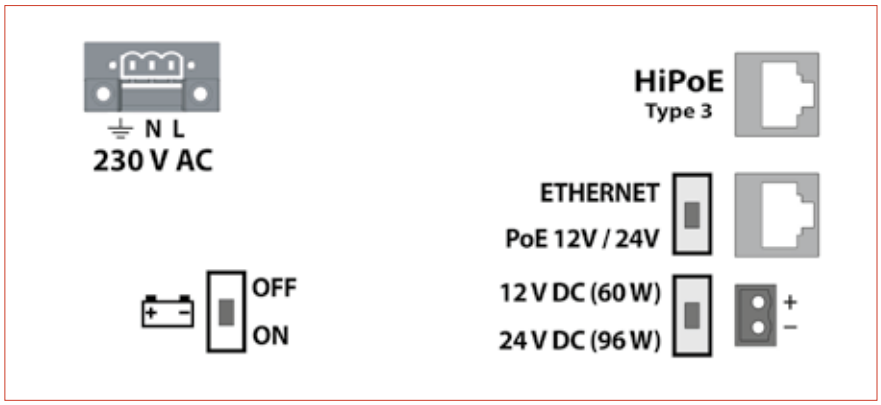
> Electrical input characteristics

AC network voltage	175 V to 265 V AC single-phase
Frequency	45 Hz to 65 Hz
Class	1
Inrush current	limited to 12 A
Neutral system	TT, TN
Primary current	1 A
Upstream circuit breaker to be provided	D curve
Lightning arrestor	Type 2 / 10 kA

> Electrical output characteristics

PoE	
PoE port	1 PoE/PoE+/HiPoE port
PoE/PoE+	IEEE 802.3af/at - 15 W / 30 W per port; Mode B
HiPoE	IEEE 802.3bt - 15 W / 30 W / 60 W per port; power supply over 4 PoE pairs (4PPoE)
Passive PoE port	1 passive PoE port: 12 V PoE or 24 V PoE (according to the DC output)
Operating output	
DC output	12 V DC or 24 V DC
Current limitation	12 V DC : In = 5 A, U > 50% Un 24 V DC : In = 4 A, U > 50% Un
Output voltage regulation	≤ 0.5%
LF ripple	12 V DC: 10 mV effective at In 24 V DC: 30 mV effective at In
Max. available power at DC output	12 V DC : 60 W 24 V DC : 96 W

Power					
	EPV-V 5K M 2P	EPV-V 5R M 2P	EPV-V 5S M 2P	EPV-2L 5L M 2P	EPV-2L 5R M 2P
Maximum power	100 W	100 W	100 W	100 W	100 W
Average power	40 W for 8h 20 W for 16h of autonomy	80 W for 8h 40 W for 16h of autonomy	95 W for 8h 47 W for 16h of autonomy	63 W for 8h 31 W for 16h of autonomy	80 W for 8h 40 W for 16h of autonomy
	Power to be validated by the associativity certificate				
Charging time on grid	To be validated by the associativity certificate				



Connections	
Mains	3 (2+PE) Screw terminals on the lighting arrester (230 V AC power supply) 3-point connector for connecting the arrestter to the pack
PoE/PoE+/HiPoE port	1 RJ45 ports (100 Mbps) : Ethernet cable Category 5 or more, shielded
Passive PoE port	1 RJ45 ports (100 Mbps) : Ethernet cable Category 5 or more, shielded
DC Output	1 DC output: Screw terminal with plug-in connector with polarizing slot
Cable cross-section	Mains: max 4 mm² DC Output: max 2.5 mm²
Cable feedthrough	Via 4 watertight cable glands
> Functional characteristics	
Intelligent start	Soft-start of the charging cycle (function active if T < 0°C).
Intelligent Healthguard	Limits the amount of energy discharged to safeguard the battery and ensure its lifespan.
Network filtering	Filters out power grid disturbances.
Cooling	Via aluminium radiator. Intermittent fan assistance (240 W version).
Protections	
Against atmospheric or industrial overvoltage on primary (10 kA lightning arrester).	
Against too high currents on the auxiliary output.	
Against overcurrent and short circuits on the output by disconnectiong the ports.	
> Battery	
Latest generation Lithium-ion LiFePO4 Technology (no risk of thermal runaway).	
Lead-free, cadmium-free, 100% recyclable.	
Storage: 9 months without recharging.	
10 year service life.	
Advanced management settings, cell balancing, overcurrent and overvoltage protection.	
> Signaling	
1 LED indicates the operation of the lightning arrestor	

> Environmental specifications		
Temperature		
Storage		0°C ... +40°C
Operating	in charge mode mains present	-10°C ... +50°C
	in discharge mode mains absent	-10°C ... +50°C with derating
Derating		Above -5°C the capacity is maximum; between -5°C and -10°C the capacity drops by 5%.
Temperatures apply for start-up and operation.		
Solar radiation - A SUN SHIELD EPV PM		
Protection		The sunshade provides protection against solar radiation
Altitude		
Above 2,000 m, the temperature decreases by 5% every 1,000 m		
Humidity		
0 to 100 % condensing		
> Standards		
IEEE Standards		
IEEE 802.3af		PoE
IEEE 802.3at		PoE+
IEEE 802.3bt		HiPoE (type 1 à 3)
Electrical and safety standards		
Safety		EN 62368-1 (2020) + A11 (2020), EN 62368-3 (2020)
EMC - Immunity		EN 61000-6-1 (2007), EN 61000-6-2 (2019)
EMC - Emissions		EN 61000-6-3 (2007), EN 61000-6-4 (2019)
		EN 61000-3-2 (2019) (class A)
		EN 55032 (2015) (class A)
Other standards		
Solar radiation		EN 60068-2-5 (2018)
Transport approval		UN 38.3
> Accessories		
PACK		Spare pack
A KIT 24V AC		Kit for a 24 V AC power supply
A KIT SWITCH 5 PORTS EPV		5-port switch
A SUN SHIELD EPV PM		Product casing; protects the box Casing for painting in street furniture colors Sunshade
A BOX 1000		Outdoor box for accessories

*SLAT reserves the right to modify the characteristics of its products without prior notice.