> Standard-based specifications

Safety	EN 62368-1
EMC - Immunity	EN 61000-6-1 • EN 61000-6-2
EMC - Emission	EN 61000-3-2 B class • EN 61000-6-3 • EN 61000-6-4 • EN 55032 class B
Application specific	EN 60068-2-5
Environmental	This product range is environmental policy (ISO 14001, RoHS and WEEE.)

> Input characteristics

Voltages	175 to 265 V AC single phase
Frequency	45 to 65 Hz
Neutral systems	TT - TN
Inrush current	limited to 12 A
Circuit breaker to be provided upstream	D Curve
Class	Class I
Primary current	1 A
Built-in lightning arrester with an unpluggable cartridge and remote signaling	type 2, 40 kA of current flow

> Output characteristics

Rated voltage (simultaneous, regulated and stabilized voltages)	12 V DC	24 V DC
Tolerance	+/- 1%	
PoE and HiPoE	with PoE and/or HiPoE injectors (accessories)	
Total energy restored per cycle	320 Wh / 640 Wh / 760 Wh	
Average power levels	40 W / 80 W / 95 W in winter (8h on public lighting) 20 W / 40 W / 47 W in summer (16h on public lighting)	
Max. power per output	60 W	96 W
Max. cumulative power	100 W	
Converter efficiency	> 96% in battery discharge mode	
Current limitation (U > 50% U_n)	I_n = 5 A, U > 50% of U_n	I_n = 4 A, U > 50% of U_n
LF ripple	10 mV_{rms}	30 mV_{rms}
Output voltage regulation	< 0.5%	
Battery	lithium	
On-board energy	> 500 Wh (EPV 320) and > 1000 Wh (EPV 640 - 760)	
Charge time	6h30 max if > 0°C	
	8h30 if -20°C	

> Integrated functions

Delta 10 thermal regulation	limits the delta between the ambient (outdoor) temperature and the indoor temperature to +10°C
Intelligent start	soft-start charging cycle - function active if < 0°C
Intelligent Healthguard	limits the amount of energy discharged to 320 Wh, 640 Wh or 760 Wh
35% reserve capacity	maintains battery performance in very cold weather and compensates for natural battery ageing
Reboot function (for cameras)	remote shutdown of 12 V DC and 24 V DC, restarting automatically after 8 seconds.
DAM	Monitors the devices connected to the EP Video and reboot them when faulty. Eight IP adresses can be logged into the webserver, what allows the control of 1 to 8 products. Restarts automatically after 8 seconds.

> Architecture and mechanical aspects

PM Version

SPACE BOX Version

- **320 Wh, 640 Wh and 760 Wh plug & play power packs:** handle makes for easy connection, with guides for greater safety; power packs start up automatically

- **Full outdoor cabinet:** all-weather resistance

- **Protection rating:** IP66

- **100% airtight and secure:** no air flows (inward or outward), and protected against vermin and dust

- **Anodized aluminum with fins:** heat-exchange surface area increased by 40%

- **Assisted internal air circulation:** even heat distribution across the whole surface area, with no hot spots

- **Shock resistance rating:** IK10

- **Wind resistance rating:** CdA 0.174 (PM version), CdA 0.233 (Space Box version)

- **Vandal-proof housing:** protects connection cables

- **«Chameleon» housing (in option):** can be painted the same color as your facade, or as other street furniture

> Size and weight

PM version	Size W x H x D (mm)	Weight (kg)
Cabinet without housing	220 x 600 x 130	5
Cabinet with vandal-proof housing	220 x 721 x 130	-
Cabinet with both housings (chameleon and vandal-proof)	248 x 721 x 160	-
EPV320	-	13.1
EPV640	-	17.1
EPV760	-	17.1
SPACE BOX Version	Size W x H x D (mm)	Weight (kg)
Cabinet without housing	220 x 800 x 130	9
Cabinet with vandal-proof housing	220 x 921 x 130	-
Cabinet with both housings (chameleon and vandal-proof)	248 x 921 x 160	-
EPV320	-	15.2
EPV640	-	19.2
EPV760	-	19.2
Space available for customer equipment	180 x 188 x 95	

> Environmental characteristics

Mains power absent in discharge mode	-20°C to +50°C
Mains power present in charge mode	-20°C to +50°C
Storage temperature	-20°C to +45°C
Humidity	from 0 to 100% (condensing)

SLAT
for safer buildings

> Connection specifications
Input on the 4 mm² lightning arrester terminal
12 V DC and 24 V DC output on 2.5 mm² terminal
2 RJ45 ports
Cable feedthrough: Four Ø 14 cable glands (allow the passage of RJ45 cables)

> Real-time access to operating information	
Web server and SNMP agent	Configuration and display of operating conditions via the IP network
2-port 100BASE-TX switch	Auto MDX/X, connection of equipment to be powered (video camera, transmission, etc) via RJ45.
Unique IP address for each EPV	Enables connection to the customer's network via Internet Explorer for configuration purposes
Alarm management	Sending of SNMP traps
Information available	- Pack serial number - Power pack capacity - Lightning arrester condition - Mains power present - Pack shutdown once 320 Wh, 640 Wh or 760 Wh has been discharged - Charger operation - Temperature inside the cabinet - Power supplied by the charger - Load output power - Duration of last charge - Duration of last discharge - Energy discharged during the last discharge - Current gauge value - Maximum gauge value during the last charge - Minimum gauge value during the last discharge - Number of charge/discharge cycles - Number of interrupted cycles - Total energy discharged since battery commissioning - Shutdown due to overheating - Charger overvoltage - Maintenance to be performed: downgraded battery capacity - Maintenance to be planned: ageing battery - Pack to be replaced
Easy to install	**Can be post, wall or pull box mounted:** - Takes less than 30 minutes for one person to install. - Total weight to be handled during installation: 5 or 9 kg (depending on the model). - Fastenings compatible with different shapes of post, and adapted to accept 20 mm universal metal banding.

> Accessories	
References	**Description**
BOX 1000	Box to add customer equipment. Size (mm): W210 x H453 x D130
KIT CAMELEON PM	This carter can be painted to the street furniture colors. It protects the enclosure in severe environments.
KIT CAMELEON SPACE BOX	
KIT HPOE 60W	The injectors allow to supply electricity to the video products thanks to the Ethernet cables with a RJ45 connector.
KIT HPOE 60W 802 3BT	
KIT POE 802 3AF	
KIT POE 24W	
KIT POE PASSIF	
KIT 24 Vac	Voltage converter for equipment powered by 24 V AC
KIT SWITCH 5 PORTS EPV	5-port switch with a low power consumption and an extended temperature range. Allows to connect up to 4 IP devices (camera, transmitter, ...) and to send information to a supervisor.

SLAT can change specifications on his products without prior notice.

SLAT
for safer buildings