Pulsar®
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Equipment for PoE systems

Table of switches

Code	Number of ports: PoE	PoE port power	UPLINK		COMBO	Long Range mode 10 Mb/s – up to 250m	Power supply	Brackets for mounting to surface / Mounting brackets for RACK 19″ / DIN rail brackets			Dimensions W×H×D [+/- 2mm]
			ports RJ45	sockets SFP							
32											
SG32	2 – 1 Gb/s	30W	1 – 1 Gb/s	—	—	✓ (ports 1 – 2)	52 V DC / 60W desktop	— / — / —			103×29×50
64											
S64-40W	4 – 100 Mb/s	30W	2 – 100 Mb/s	—	—	✓ (ports 1 – 4)	52 V DC / 40W desktop	✓ / — / —			118×28×85
S64							52 V DC / 60W desktop				
S64WP							48 – 57 V DC / 60W external power supply				
SG64	4 – 1 Gb/s	30W	2 – 1 Gb/s	—	—	—	52 V DC / 60W desktop	✓ / — / —			118×28×85
SG64WP							48 – 57 V DC / 60W external power supply				
SG64WP-BT		60W	—	—	—	—	48 – 57 V DC / 120W external power supply	✓ / — / —			118×28×95
SFG64	4 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	—	52 V DC / 60W desktop	✓ / — / —			118×28×95
SFG64WP							48 – 57 V DC / 60W external power supply				
SFG64WP-BT		60W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 90W external power supply	✓ / — / —			118×28×95
SFG64F1	4 – 1 Gb/s	30W	1 – 1 Gb/s	1 – 1 Gb/s	—	—	52 V DC / 60W desktop	✓ / — / —			118×28×95
SFG64F1WP							48 – 57 V DC / 60W external power supply				
108											
S108-90W	8 – 100 Mb/s	30W	2 – 100 Mb/s	—	—	✓ (ports 1 – 8)	52 V DC / 90W desktop	✓ / — / —			190×28×105
S108							52 V DC / 120W desktop				
S108WP							48 – 57 V DC / 120W external power supply				
SG108-90W	8 – 1 Gb/s	30W	2 – 1 Gb/s	—	—	—	52 V DC / 90W desktop	✓ / — / —			190×27×105
SG108							52 V DC / 120W desktop				
SG108WP							48 – 57 V DC / 120W external power supply				
SFG108-90W	8 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	52 V DC / 90W desktop	✓ / ✓ / —			220×44×150
SFG108							52 V DC / 120W desktop				
SFG108WP							48 – 57 V DC / 120W external power supply				
SFG10F8	—	—	2 – 1 Gb/s	8 – 1 Gb/s	—	—	12 V DC / 2A desktop	✓ / — / —			221×29×115
116											
S116	16 – 100 Mb/s	30W	2 – 1 Gb/s	—	—	✓ (ports 9 – 16)	230 V AC / 160W	✓ / ✓ / —			270×44×181
S116WP							48 – 54 V DC / 240W external power supply				
SF116	16 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	✓		230 V AC / 160W	— / ✓ / —			442×44×224
SF116WP							48 – 54 V DC / 240W external power supply				
SFG116	16 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	230 V AC / 160W	— / ✓ / —			442×44×224
SFG116WP					—	—	48 – 54 V DC / 240W external power supply				
124											
S124	24 – 100 Mb/s	30W	2 – 1 Gb/s	—	—	✓ (ports 17 – 24)	230 V AC / 240W	✓ / ✓ / —			330×44×204
S124WP							48 – 54 V DC / 360W external power supply				
SF124	24 – 100 Mb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	✓	—	230 V AC / 240W	— / ✓ / —			442×44×224
SF124WP							48 – 54 V DC / 360W external power supply				
SFG124	24 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	230 V AC / 240W	— / ✓ / —			442×44×224
SFG124WP							48 – 54 V DC / 360W external power supply				

ISFG, ISFE series
without power supply unit, with SFP socket, industrial

Code	Number of ports: PoE	PoE port power	UPLINK		COMBO	Long Range mode	Power supply	Brackets / RACK / DIN rail			Dimensions
			ports RJ45	sockets SFP							
ISFG42	2 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 60W external power supply	— / — / ✓			30×128×112
ISFG64-BT	4 – 1 Gb/s	60W	—	2 – 1 Gb/s	—	—	48 – 57 V DC / 120W external power supply	— / — / ✓			
ISFE64	4 – 2.5 Gb/s	30W	—	2 - 10 Gb/s	—	—	48 – 57 V DC / 120W external power supply	— / — / ✓			
ISFG108	8 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	—	—	48 – 57 V DC / 120W external power supply	— / — / ✓			54×176×153
ISFE98	8 – 2.5 Gb/s	30W	—	1 - 10 Gb/s	—	—	48 – 57 V DC / 180W external power supply	— / — / ✓			48×161×142

Legend:

4 – 100 Mb/s	— mark of number of ports 100 Mb/s		4 – 2.5 Gb/s	— mark of number of ports 2.5 Gb/s
4 – 1 Gb/s	— mark of number of ports 1 Gb/s		1 – 10Gb/s	— mark of number of ports 10 Gb/s

PoE switches with power supply S series

- supports devices compliant with IEEE 802.3af/at standard;
- 10/100 Mb/s and 1 Gb/s ports *;
- PoE ports – data transfer and power supply;
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s;
- 30W for each PoE port – 52 V DC (PoE+);
- UPLINK ports: 2 ports – for recorder / switch / computer installation;
- desktop type power supply included *;
- additional mounting elements:
    - brackets for mounting to surface *;
    - mounting brackets for RACK 19″ *;
- warranty: 2 years.

* depending on model

Sample product
S108

Code	Number of ports: PoE	Long Range mode 100 Mb/s – up to 100m 10 Mb/s – up to 250m	Number of ports: UPLINK RJ45	Power supply	Brackets for mounting to surface /	Mounting brackets for RACK 19″	Dimensions W×H×D [+/- 2mm]
S64-40W	4 – 100 Mb/s	✓ (ports 1 – 4)	2 – 100 Mb/s	52 V DC / 40W desktop	✓ /	—	118×28×85
S64				52 V DC / 60W desktop			
S108-90W	8 – 100 Mb/s	✓ (ports 1 – 8)		52 V DC / 90W desktop	✓ /	—	190×28×105
S108		✓ (ports 1 – 8)		52 V DC / 120W desktop			
S116	16 – 100 Mb/s	✓ (ports 9 – 16)	2 – 1 Gb/s	230 V AC	— /	✓	270×44×181
S124	24 – 100 Mb/s	✓ (ports 17 – 24)			— /	✓	330×44×204

PoE switches with power supply SG series

- supports devices compliant with IEEE 802.3af/at standard;
- 1 Gb/s ports;
- PoE ports – data transfer and power supply;
- 30W for each PoE port – 52 V DC (PoE+);
- UPLINK ports: 1/2 ports – for recorder / switch / computer installation;
- desktop type power supply included;
- additional mounting elements:
    - brackets for mounting to surface;
- warranty: 2 years.

1 Gb/s

Sample product
SG108

Code	Number of ports: PoE	Long Range mode 10 Mb/s – up to 250m	Number of ports: UPLINK RJ45	Power supply	Brackets for mounting to surface	Dimensions W×H×D [+/- 2mm]
SG32	2 – 1 Gb/s	✓ (ports 1 – 2)	1 – 1 Gb/s	52 V DC / 60W desktop	—	103×29×50
SG64	4 – 1 Gb/s	—	2 – 1 Gb/s	52 V DC / 60W desktop	✓	118×28×85
SG108-90W	8 – 1 Gb/s	—		52 V DC / 90W desktop	✓	190×27×105
SG108	8 – 1 Gb/s	—		52 V DC / 120W desktop	✓	190×27×105

PoE switches
with power supply, with SFP sockets
SF series

SFP   SFP(Combo)

- supports devices compliant with IEEE 802.3af/at standard;
- 10/100 Mb/s and 1 Gb/s ports;
- PoE ports – data transfer and power supply;
- 30W for each PoE port – 52 V DC (PoE+);
- UPLINK ports: 2 ports – for recorder / switch / computer installation;
- additional mounting elements:
  - mounting brackets for RACK 19″;
- warranty: 2 years.

Sample product
SF116

Code	Number of ports: PoE	UPLINK		Combo	Power supply	Brackets for mounting to surface	/	Mounting brackets for RACK 19″	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP						
SF116	16 – 100 Mb/s	2 – 1 Gb/s	2 – 1 Gb/s	✓	230 V AC	—	/	✓	442×44×224
SF124	24 – 100 Mb/s			✓	230 V AC	—	/	✓	

PoE switches
with power supply, with SFP sockets
SFG series

1 Gb/s   SFP

- supports devices compliant with IEEE 802.3af/at standard;
- 1 Gb/s ports;
- PoE ports – data transfer and power supply;
- 30W for each PoE port – 52 V DC (PoE+);
- RJ45 UPLINK ports: n/a / 1 port – for recorder / switch / computer installation *;
- SFP UPLINK sockets: 1/2 ports – for switch installation *;
- desktop type power supply included;
- additional mounting elements:
  - brackets for mounting to surface;
- warranty: 2 years.

* depending on model

Sample product
SFG64F1

Code	Number of ports: PoE	UPLINK		Power supply	Brackets for mounting to surface	/	Mounting brackets for RACK 19″	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP					
SFG64	4 – 1 Gb/s	—	2 – 1 Gb/s	52 V DC / 60W desktop	✓	/	—	118×28×95
SFG64F1		1 – 1 Gb/s	1 – 1 Gb/s		✓	/	—	
SFG108-90W	8 – 1 Gb/s	2 – 1 Gb/s	2 – 1 Gb/s	52 V DC / 90W desktop	✓	/	✓	220×44×150
SFG108	8 – 1 Gb/s			52 V DC / 120W desktop	✓	/	✓	
SFG116	16 – 1 Gb/s			230 V AC / 160W	—	/	✓	442×44×224
SFG124	24 – 1 Gb/s			230 V AC / 240W	—	/	✓	

Optical switch
with power supply, with SFP sockets
SFG10F8 series

SFP

- 1 Gb/s ports;
- RJ45 UPLINK ports: 2 ports – for recorder / switch / computer installation;
- SFP sockets: 8 ports – for switch installation;
- desktop type power supply included;
- additional mounting elements:
  ◦ brackets for mounting to surface;
- warranty: 2 years.

SFG10F8

Code	Number of ports: PoE	UPLINK		Power supply	Brackets for mounting to surface	Dimensions W×H×D [+/- 2mm]
		ports RJ45	sockets SFP			
SFG10F8	—	2 – 1 Gb/s	8 – 1 Gb/s	12 V DC / 2A desktop	✓	221×29×115

PoE switches, industrial
without power supply, with SFP sockets
ISFG / ISFE series

- supports devices compliant with IEEE802.3af/at/bt standard *;
- 1 Gb/s ports *;
- PoE ports – data transfer and power supply;
- 30W/60W for each PoE port – 52 V DC (PoE+/PoE++) *;
- RJ45 UPLINK ports: n/a / 2 ports – for recorder / switch / computer installation *;
- SFP UPLINK sockets: 2 ports – for switch installation;
- external power supply 52 – 57 V DC;
- possibility of redundant supplying;
- power supply unit is not included;
- additional mounting elements:
  ◦ DIN rail brackets;
- warranty: 5 years.

* depending on model

Sample product
ISFG64

Code	Number of ports: PoE	PoE ports power	UPLINK		Power supply	DIN rail brackets	Dimensions W×H×D [+/- 2mm]
			ports RJ45	sockets SFP			
ISFG42	2 – 1 Gb/s	30W	—	2 – 1 Gb/s	48 – 57 V DC / 60W external power supply	✓	30×128×112
ISFG64-BT	4 – 1 Gb/s	60W	—		48 – 57 V DC / 120W external power supply	✓	
ISFE64	4 – 2.5 Gb/s	30W	—	2 – 10 Gb/s	48 – 57 V DC / 120W external power supply	✓	
ISFG108	8 – 1 Gb/s	30W	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC / 120W external power supply	✓	54×176×153
ISFE98	8 – 2.5 Gb/s	30W	—	1 – 10 Gb/s	48 – 57 V DC / 180W external power supply	✓	48×161×142

PoE switches – RACK 19"
with power supply desktop, with SFP sockets *
S, SF, SFG series

- supports devices compliant with IEEE 802.3af/at standard;
- 10/100 Mb/s and 1 Gb/s ports *;
- PoE ports – data transfer and power supply *;
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *;
- 30W for each PoE port – 52 V DC (PoE+);
- UPLINK ports: 2 ports – for recorder / switch / computer installation;
- SFP UPLINK sockets: 2 ports – for recorder / switch / computer installation *;
- UPLINK – COMBO type – operates RJ45 or SFP *;
- desktop type power supply supplied with switch *;
- standard RACK 19″ / 1U;
- additional mounting elements: mounting brackets for RACK 19″;
- warranty: 2 years.

RACK 19″

Sample product
SF116

* depending on model

Code	Number of ports: PoE	Long Range mode 100 Mb/s – up to 100m 10 Mb/s – up to 250m	UPLINK ports RJ45	UPLINK sockets SFP	COMBO	Power supply	Mounting dimensions W×H×D (mounting brackets for RACK 19″)	Dimensions W / W₁ / H / D [+/- 2mm]
S116	16 – 100 Mb/s	✓ (ports: 9 – 16)	2 – 1 Gb/s	—	—	230 V AC	19″×1U×181	486 / 270 / 44 / 181
S124	24 – 100 Mb/s	✓ (ports: 17 – 24)	2 – 1 Gb/s	—	—	230 V AC	19″×1U×204	486 / 330 / 44 / 204
SF116	16 – 100 Mb/s	—	2 – 1 Gb/s	2 – 1 Gb/s	✓	230 V AC	19″×1U×224	482 / 442 / 44 / 224
SF124	24 – 100 Mb/s	—	2 – 1 Gb/s	2 – 1 Gb/s	✓	230 V AC	19″×1U×224	486 / 442 / 44 / 224
SFG108-90W	8 – 1 Gb/s	—	2 – 1 Gb/s	2 – 1 Gb/s	—	52 V DC / 90W desktop	19″×1U×150	482 / 220 / 44 / 150
SFG108	8 – 1 Gb/s	—	2 – 1 Gb/s	2 – 1 Gb/s	—	52 V DC / 120W desktop	19″×1U×150	482 / 220 / 44 / 150
SFG116	16 – 1 Gb/s	—	2 – 1 Gb/s	2 – 1 Gb/s	—	230 V AC	19″×1U×224	482 / 442 / 44 / 224
SFG124	24 – 1 Gb/s	—	2 – 1 Gb/s	2 – 1 Gb/s	—	230 V AC	19″×1U×224	486 / 442 / 44 / 224

PoE switches – without power supply unit
for installation in universal power supply systems SWS / SWB / SWR / SWSH / SWBH series
S…WP, SG…WP, SF…WP, SFG…WP series

- supports devices compliant with IEEE802.3af/at/bt standard *;
- 10/100 Mb/s and 1 Gb/s ports *;
- PoE ports – data transfer and power supply;
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *;
- 30W/60W for each PoE port – 52 V DC (PoE+/PoE++) *;
- UPLINK ports: 1/2 ports – for recorder / switch / computer installation *;
- SFP UPLINK sockets: 1/2 ports – for recorder / switch / computer installation *;
- external power supply 48 – 54 V DC / 48 – 57 V DC *;
- power supply unit is not included;
- additional mounting elements:
  - brackets for mounting to surface *;
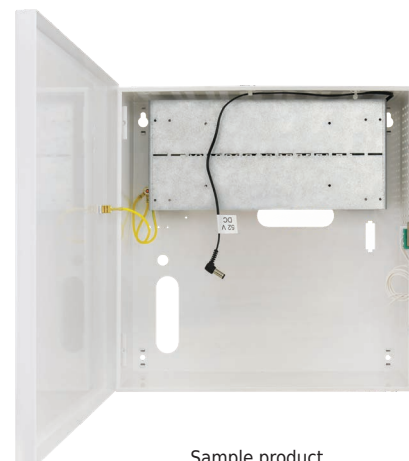 - mounting brackets for RACK 19″ *;
- warranty: 2 years.

Sample product
SF116WP

* depending on model

Code	Number of ports: PoE	PoE ports power	Long Range mode 100 Mb/s – up to 100m 10 Mb/s – up to 250m	UPLINK RJ45 ports	UPLINK SFP sockets	Power supply	Brackets for mounting to surface / Mounting brackets for RACK 19″	Dimensions W×H×D [+/- 2mm]
S64WP	4 – 100 Mb/s	30W	✓ (ports 1 – 4)	2 – 100 Mb/s	—	48 – 57 V DC	✓ / —	118×28×85
SG64WP	4 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	48 – 57 V DC	✓ / —	118×28×85
SG64WP-BT	4 – 1 Gb/s	60W	—	2 – 1 Gb/s	—	48 – 57 V DC	✓ / —	118×28×85
SFG64WP	4 – 1 Gb/s	30W	—	—	2 – 1 Gb/s	48 – 57 V DC	✓ / —	118×28×85
SFG64WP-BT	4 – 1 Gb/s	60W	—	—	2 – 1 Gb/s	48 – 57 V DC	✓ / —	118×28×85
SFG64F1WP	4 – 1 Gb/s	30W	—	1 – 1 Gb/s	1 – 1 Gb/s	48 – 57 V DC	✓ / —	118×28×85
S108WP	8 – 100 Mb/s	30W	✓ (ports 1 – 8)	2 – 100 Mb/s	—	48 – 57 V DC	✓ / —	190×28×105
SG108WP	8 – 1 Gb/s	30W	—	2 – 1 Gb/s	—	48 – 57 V DC	✓ / —	190×28×105
SFG108WP	8 – 1 Gb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC	✓ / ✓	220×44×150
S116WP	16 – 100 Mb/s	30W	✓ (ports 9 – 16)	2 – 1 Gb/s	—	48 – 54 V DC	— / ✓	270×44×181
SF116WP	16 – 100 Mb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 54 V DC	— / ✓	442×44×224
SFG116WP	16 – 1 Gb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC	— / ✓	442×44×224
S124WP	24 – 100 Mb/s	30W	✓ (ports 17 – 24)	2 – 1 Gb/s	—	48 – 54 V DC	— / ✓	330×44×204
SF124WP	24 – 100 Mb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 54 V DC	— / ✓	442×44×224
SFG124WP	24 – 1 Gb/s	30W	—	2 – 1 Gb/s	2 – 1 Gb/s	48 – 57 V DC	— / ✓	442×44×224

Power supply systems for PoE switches without battery backup SWS series

- power supply: 200 – 240 V AC;
- output voltage – PoE: 52 V DC – JACK plug 2,1/5,5;
- dedicated to 4/8 ports PoE switches;
- metal enclosure – colour white RAL9003;
- protections:
    - SCP short circuit protection;
    - OLP overload protection;
    - OVP overvoltage protection;
    - surge protection;
    - antisabotage protection;
- warranty: 2 years.

Sample product
SWS-150

Code	Output voltage – PoE / power	Adjustable output voltage – PoE	Enclosure dimensions $W \times H \times D + D_1$ [+/- 2mm]	Mounting plate dimensions $W_2 \times H_2 \times D_2$ [+/- 2mm]
SWS-60	52 V DC / 60W	48 – 53 V DC	230×300×82+8	200×110×50
SWS-150	52 V DC / 150W	48 – 53 V DC	300×300×105+8	230×110×45

Power supply systems for PoE switches with battery backup SWB, SWB…RACK series

- power supply: 200 – 240 V AC;
- output voltage – PoE: 52 V DC / 54 V DC * – JACK plug 2,1/5,5 / EDG 5.08MM–2P *;
- possibility of installing additional mounting plate *;
- optical indication;
- RACK – 3U brackets, with adjustable mounting height on 3 levels;
- enclosure construction is compliant with requirements of General Data Protection Regulation GDPR (possibility of installing two locks with different codes);
- fitting battery: 1×7Ah / 2×17Ah / 4×17Ah *;
- battery charging current: 0,5A / 1A / 2A jumper selectable *;
- deep discharge battery protection – UVP;
- battery charging and maintenance control;
- metal enclosure – colour white RAL9003;
- protections:
    - SCP short circuit protection;
    - OVP overvoltage protection;
    - surge protection
    - OLP overload protection;
    - OHP overheat protection *;
    - antisabotage protection;
- warranty: 2 years.

Sample product
SWB-300

* depending on model

Code	Output voltage – PoE / power	Battery charging current	Recomended batteries	Enclosure dimensions $W \times H \times D + D_1$ [+/- 2mm]	Mounting plate dimensions / installation space $W_2 \times H_2 \times D_2$ [+/- 2mm]	Additional mounting plate	RACK 19" profiles / with recorder space / GDPR (possibility of installing two locks with different codes)
SWB-60	52 V DC / 60W	1A / 2A	1 × 7Ah	300×300×105+8	230×110×45	—	—
SWB-120	52 V DC / 120W	0,5A / 2A	2 × 17Ah	330×380×173+8	245×150×90	BM2	—
SWB-300	54 V DC / 300W	0,5A / 1A / 2A	4 × 17Ah	460×390×173+8	245×150×90		
SWB-300RACK	54 V DC / 300W	0,5A / 1A / 2A	4 × 17Ah	535×650×165+14	530×430×155	—	3U – level / ✓ / ✓

Power supply systems for PoE switches without battery backup, ABS IP56
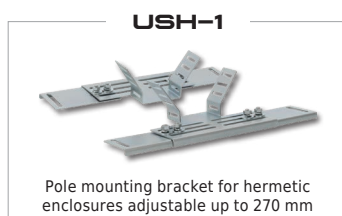## SWSH series
Enclosure with power supply unit and adapter for mounting switch

- power supply: 200 – 240 V AC
- output voltage – PoE: 52 V DC – JACK plug 2,1/5,5
- dedicated to 2/4/8 port PoE switches
- protections:
  - SCP short circuit protection
  - OLP overload protection
  - OVP overvoltage protection
  - surge protection
- ABS enclosure – IP56
- UV resistance;
- warranty: 2 years.

Code	Output voltage – PoE / Power	Adjustable output voltage – PoE	Enclosure dimensions W×H×D [+/- 2mm]	Mounting plate dimensions $W_1 \times H_1 \times D_1$ [+/- 2mm]	Number of cable glands / cable diameter
SWSH-120	52 V DC / 120W	48 – 53 V DC	225×308×130	191×100×57	1 piece / 10÷14mm 3 pieces / 13÷18mm

Accessories:

OZB4
OZB4 metal clamp with a mounting plate

USH−1
Pole mounting bracket for hermetic enclosures adjustable up to 270 mm

Power supply systems for PoE switches with battery backup, ABS IP44
SWBH series
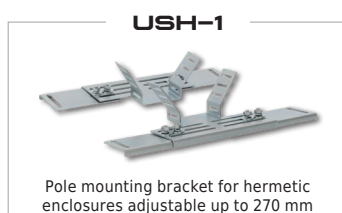Enclosure with power supply unit with battery backup and adapter for mounting switch

- power supply: 200 – 240 V AC;
- output voltage – PoE: 52 V DC – JACK plug 2,1/5,5;
- function START allows running PSU from battery power;
- dedicated to 2/4 port PoE switches;
- space for battery: 1×7Ah / 2×12Ah *;
- battery charging current: 0,5A;
- deep discharge battery protection (UVP);
- battery charging and maintenance control;
- protections:
  - SCP short circuit protection;   ◦ OLP overload protection;
  - OVP overvoltage protection;   ◦ surge protection;
- ABS enclosure – IP44
- UV resistance;
- warranty: 2 years.

* depending on model

Code	Output voltage – PoE / Power	Battery charging current	Recomended batteries	Enclosure dimensions W×H×D [+/- 2mm]	Mounting plate dimensions $W_1 \times H_1 \times D_1$ [+/- 2mm]	Number of cable glands / cable diameter
SWBH-60	52 V DC / 60W – buffer	0,5A	1 × 7Ah	240×308×130	204×92×35	1 piece / 10÷14mm 2 pieces / 13÷18mm
SWBH-120	52 V DC / 120W – buffer	0,5A	2 × 12Ah	318×387×130	210×152×45	1 piece / 10÷14mm 3 pieces / 13÷18mm

Accessories:

OZB4
OZB4 metal clamp with a mounting plate

USH−1
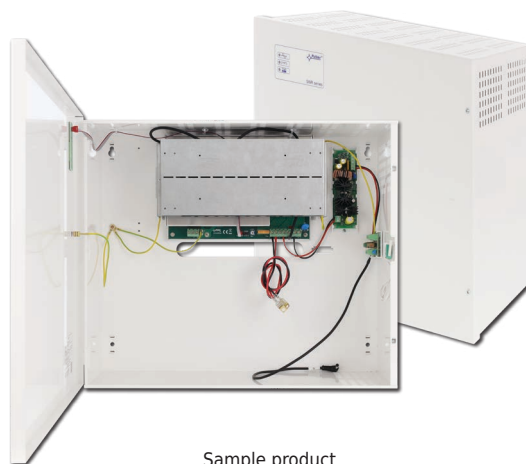Pole mounting bracket for hermetic enclosures adjustable up to 270 mm

Power supply systems for PoE switches and recorder with battery backup
SWR series
Enclosure with power supply unit with battery backup and additional adapter for mounting switch and recorder *

- power supply: 200 – 240 V AC;
- output voltage:
   - 120W - PoE: 52 V DC / recorder: 12 V DC / 2A (max.);
   - 300W - PoE: 54 V DC / recorder: 12 V DC / 5A (max.);
- recorder power supply, switch: JACK plug 2,1/5,5;
- removable universal mounting plates;
- optical indication;
- battery charging current: 0,5A / 1A / 2A jumper selectable *;
- deep discharge battery protection (UVP);
- battery charging and maintenance control;
- metal enclosure – colour white RAL9003;
- possibility of mounting tamper switch detects detachment from wall (required PKAZ067);
- protections:
   - SCP short circuit protection;
   - OVP overvoltage protection;
   - surge protection;
   - OLP overload protection;
   - OHP overheat protection *;
   - antisabotage protection;
- warranty: 2 years.

* depending on model

Sample product
SWR-300

Code	Maximum current	Circuit switch	Circuit recorder	Battery charging current	Recomended batteries	Dimensions of recorder space $W_2 \times H_2 \times D_2$ [+/- 2mm]	Dimensions $W \times H \times D + D_1$ [+/- 2mm]
SWR-120	120W	52 V DC	12 V DC (2A max.)	0,5A / 2A	2×17Ah	250×350×48 (at 2×7Ah) 250×180×48 (at 2×17Ah)	330×380×173+14
SWR-300	300W	54 V DC	12 V DC (5A max.)	0,5A / 1A / 2A	4×17Ah	380×380×48 (at 4×7Ah) 380×280×48 (at 4×17Ah)	460×390×173+14

PoE switches in IP56 hermetic enclosure, hermetic power supply
S…H, SG…H, SFG…H series

- supports devices compliant with IEEE 802.3af / at standard;
- 10/100 Mb/s and 1 Gb/s *;
- PoE ports – data transfer and power supply;
- Long Range mode: STANDARD – 100m/100 Mb/s or EXTEND – 250m/10 Mb/s *;
- 30W for each PoE port – 52 V DC (PoE+);
- RJ45 UPLINK ports: 2 ports – for recorder / switch / computer installation *;
- SFP UPLINK sockets: 2 ports – for recorder / switch / computer installation *;
- hermetic enclosure – IP56;
- warranty: 2 years.

* depending on model

Sample product
SG64H

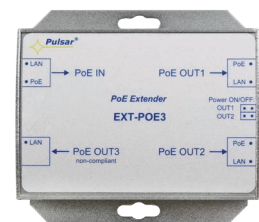| Code	Number of ports: PoE	Long Range mode 100 Mb/s – up to 100m 10 Mb/s – up to 250m	UPLINK		Power supply	Number of cable glands / Ø cables	Dimensions W×H×D [+/- 2mm]
			ports RJ45	sockets SFP			
S64H	4 – 100 Mb/s	✓ (ports 1 – 4)	2 – 100 Mb/s	—	52 V DC / 60W desktop	2 pcs. / 13 – 18mm 1 pcs. / 10 – 14mm	146×196×78
SG64H	4 – 1 Gb/s	—	2 – 1 Gb/s	—			
SFG64H		—	—	2 – 1 Gb/s			

Accessories:

OZB2

OZB2 metal clamp with a mounting plate

PoE extenders
EXT... series
desktop

- PoE input: PoE IN – compliant with IEEE 802.3af/at/bt *;
- PoE output: PoE OUT – compliant with IEEE 802.3af/at *;
- increases Ethernet and PoE power range by 100 meters;
- supports 10/100 Mb/s and 10/100/1000 Mb/s networks ;
- LED optical signalization;
- protections:
  - ◦ SCP short circuit protection;
  - ◦ surge protection (PoE input);
  - ◦ OLP overload protection;
- warranty: 2 years.

* depending on model

Sample product
EXT–POE3

Code	Additional power input	RJ45 input / compliant with IEEE 802.3.....	RJ45 output / compliant with IEEE 802.3.....	Output power [W]	Total power [W]	Supports networks	Installation: mounting screws	Dimensions L×W×H [+/- 2mm]
EXT-POE2	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af	15W / port 15W / port	20W	10/100 Mb/s	✓	81×77×26
EXT-POE4	DC IN 44 – 57 V DC	PoE IN / compliant – af/at	PoE OUT1 / not compliant PoE OUT2 / not compliant	15W / port 15W / port	20W	10/100 Mb/s	✓	81×77×26
EXT-POE3	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / not compliant	30W / port 30W / port 15W / port	30W	10/100 Mb/s	✓	81×77×26
EXT-POEG5	DC IN 48 – 57 V DC	PoE IN / compliant – af/at/bt	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at	30W / port 30W / port 30W / port 30W / port	40W – 60W (depends on way of supplying)	10/100/1000 Mb/s	✓	118×85×28

PoE extenders in hermetic enclosure – IP56
EXT...H series

- PoE input: PoE IN – compliant with IEEE 802.3af/at;
- PoE output: PoE OUT – compliant with IEEE 802.3af *;
- increases Ethernet and PoE power range by 100 meters;
- supports both 10/100 Mb/s networks;
- LED optical signalization;
- protections:
  - ◦ SCP short circuit protection;
  - ◦ surge protection (PoE input);
  - ◦ OLP overload protection;
- notes:
  - ◦ hermetic enclosure IP56;
  - ◦ UV resistance;
- warranty: 2 years.

* depending on model

Sample product
EXT–POE2H

Code	Additional power input	RJ45 input / compliant with IEEE 802.3...	RJ45 output / compliant with IEEE 802.3...	Output power [W]	Total power [W]	Number of cable glands / Ø cables	Dimensions W×H×D [+/- 2mm]
EXT-POE2H	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af PoE OUT2 / compliant – af	15W / port 15W / port	20W	4 pieces / 6 – 13mm	148×198×78
EXT-POE3H	—	PoE IN / compliant – af/at	PoE OUT1 / compliant – af/at PoE OUT2 / compliant – af/at PoE OUT3 / not compliant	20W / port 20W / port 15W / port	20W		
EXT-POE4H	DC IN 44 – 57 V DC	PoE IN / compliant – af/at	PoE OUT1 / not compliant PoE OUT2 / not compliant	15W / port 15W / port	20W		

Accessories:

OZB2 metal clamp with a mounting plate

PoE extenders
EXT...DIN series
for DIN rail

- PoE input: PoE IN – compliant with IEEE 802.3af/at/bt *;
- PoE output: PoE OUT – compliant with IEEE 802.3af/at/bt *;
- increases Ethernet and PoE power range by 100 meters;
- supports 10/100 Mb/s and 10/100/1000 Mb/s networks ;
- LED optical signalization;
- protections:
  - SCP short circuit protection;
  - surge protection (PoE input);
  - OLP overload protection;
- warranty: 2 years.

* depending on model

Code	RJ45 input / compliant with IEEE 802.3.....	RJ45 output / compliant with IEEE 802.3.....	Output power [W]	Total power [W]	Supports networks	Installation		Dimensions L×W×H [+/- 2mm]
						DIN rail /	Mounting screws	
EXT-POE3DIN	PoE IN / compliant – af/at	PoE OUT2 / compliant – af/at PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at VLAN mode switch	25W / port 25W / port 25W / port	25W	10/100 Mb/s	✓ /	✓	50×23×81
EXT-POEG3DIN	PoE IN / compliant – af/at	PoE OUT2/ compliant – af/at PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at VLAN mode switch	25W / port 25W / port 25W / port	25W	10/100/1000 Mb/s	✓ /	✓	50×23×81
EXT-POEG4DIN	PoE IN: IEEE 802.3af/at/bt	PoE OUT2 / compliant – af/at/bt PoE OUT3 / compliant – af/at PoE OUT4 / compliant – af/at PoE OUT5 / compliant – af/at VLAN mode switch	45W / port 25W / port 25W / port 25W / port	45W	10/100/1000 Mb/s	✓ /	✓	57×85×23

Accessories CCTV – IP
SFP fiber optic modules for switches of SF..., SFG..., ISFG... series
GBIC series

- fiber type: single mode (SM) / multimode (MM) *;
- optical connector Type: LC / SC *;
- wavelength: 850nm / 850nm *; 1270nm / 1330nm *; 1330nm / 1270nm *; 1310nm / 1310nm *; 1310nm / 1550nm *; 1550nm / 1310nm *;
- transmission range: up to 0,3 km / up to 2 km / up to 10 km / up to 20 km *;
- transmission speed: 1,25 Gb/s / 10 Gb/s*;
- standards and protocols: IEEE 802.3z 1000Base-FX *;
  IEEE 802.3ae 10GBASE-SR/SW *;
  IEEE 802.3ae 10GBASE-LR/LW *;
- power supply: 3,3 V DC (power from SFP port);
- notes:
  - built-in DDM (Digital Diagnostics Monitoring);
  - built-in DOM (Digital Optical Monitoring);
  - module has snap-lock system for optical connectors;
- warranty: 2 years.

Sample product
GBIC-101

* depending on model

Code	Fiber type	Optical Connector Type	Wavelength Tx / Rx	Transmission range	Transmission speed
GBIC–101	SM	2×LC	1310nm / 1310nm	20 km	1,25 Gb/s
GBIC–102	MM	2×LC	1310nm / 1310nm	2 km	1,25 Gb/s
GBIC–103	SM	1×SC	1310nm / 1550nm	20 km	1,25 Gb/s
GBIC–104	SM	1×SC	1550nm / 1310nm	20 km	1,25 Gb/s
GBIC–105	SM	1×LC	1310nm / 1550nm	20 km	1,25 Gb/s
GBIC–106	SM	1×LC	1550nm / 1310nm	20 km	1,25 Gb/s
GBIC–201	SM	2×LC	1310nm / 1310nm	10 km	**10 Gb/s**
GBIC–202	MM	2×LC	850nm / 850nm	0,3 km	**10 Gb/s**
GBIC–205	SM	1×SC	1330nm / 1270nm	20 km	**10 Gb/s**
GBIC–206	SM	1×SC	1270nm / 1330nm	20 km	**10 Gb/s**

Code	Notes	Transmission range	Transmission speed
GBIC–109	RJ45 socket compatible with SFP port	100 m	10/100/1000 Mb/s

Accessories CCTV – IP
Enclosures for CCTV recorders
Horizontal

Enclosures construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protect recorder against unauthorized access or theft. Enclosures are made of 1mm thickness steel. Equipped with two locks (different code); two keys for each lock plus a tamper switch indicating enclosure opening. Due to vertical installation and low depth, they are ideal for places where enclosures of large dimensions, such as cabinets type RACK 19″, cannot be installed.

After opening enclosures, an easy access to buttons on front panel of recorder is provided. Wiring in rear side of recorder can also be easily accessed. To do that, simply remove upper part of enclosure. They are possible to mount enclosures under tabletop using appropriate handles (available as accessory).

Warranty: 2 years.

Sample product
AWO447

Code	Bracket	Possibility of mounting ARAW45	External dimensions of enclosure: $W \times H + H_3 \times D$ [+/- 2mm]	External dimensions of front panel: $W_1 \times H_1$ [+/- 2mm]	Dimensions of recorder space: $W_2 \times H_2 \times D_2$ [+/- 2mm]
AWO445	AWO445BR	✓	400×99+14×300	405×105	355×90×235
AWO447		✓	400×99+14×430		355×90×360
AWO483	AWO483BR	✓	500×99+14×400	505×105	455×90×335
AWO471	AWO471BR	✓	550×124+14×572	555×130	505×115×505

Accessories:

AWO445BR – Bracket DVR/SMALL
AWO483BR – Bracket DVR/MEDIUM
AWO471BR – Bracket DVR/BIG

ARAW45
Fan with temperature sensor 45°C

Accessories CCTV – IP
Enclosures for CCTV recorders
Vertical – with space for monitor

Enclosures construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protects recorder/monitor/switch against unauthorized access or theft. Enclosure is made of steel with thickness of 1,2mm.

Possibility of install inside:

◦ recorder;
◦ desktop type switches;
◦ RACK 19″ switches;
◦ RACK 19″ patch panel;
◦ monitor (max 22″) – applies to AWO531W.

Warranty: 2 years.

Sample product
AWO531W

Code	Recomended batteries	Outlet 230 V AC	Locking with keys (GDPR)	Place for a monitor (max 22″)	Possibility of mounting ARAW45	RACK 19″ holder (horizontal)	External dimensions of enclosure: $W \times H \times D + D_1$ [+/- 2mm]	Dimensions of recorder space: $W_2 \times H_2 \times D_2$ [+/- 2mm]	Straps for mounting recorder
AWO531W	4×7Ah	—	✓	✓	✓	4U	589×650×261+14	480×400×180	✓
AWO532W	4×7Ah / 2×17Ah	2 pieces	— (assembly required 2×MR008)	—	—	3U	535×540×165+14	530×380×155	— (ZPR kit required)

Accessories:

ARAW45

Fan with temperature sensor 45°C

RAPDS

Universal RACK adapter for desktop switches

ZPR

Set of two straps for mounting recorder

MR008

Lock, type 802 – various code

Enclosure construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protect recorder against unauthorized access or theft. They are made of 1,2mm thickness steel. Due to vertical installation and low depth, they are ideal for places where deeper enclosures or cabinets RACK 19″ type cannot be installed.

After opening enclosure, front cover are held in horizontal position, providing easy access to buttons on front panel of recorder.

Warranty: 2 years

Sample product
AWO528W / AWO529

Code	Colour	Possibility of mounting ARAW45	Number of locks MR008 (various code)	External dimensions of enclosure W×H×D+D$_2$ [+/− 2mm]	Dimensions of recorder space W$_1$×H$_1$×D$_1$ [+/− 2mm]
AWO528	RAL9005 (black matt)	—	2 pcs.	320×430×82+14	260×250×55
AWO528W	RAL9003 (white)	—			
AWO529	RAL9005 (black matt)	—		435×500×121+14	375×335×95
AWO529W	RAL9003 (white)	—			
AWO530	RAL9005 (black matt)	✓		535×650×121+14	470×485×95
AWO530W	RAL9003 (white)	✓			

Accessories:

ARAW45

Fan with temperature sensor 45°C

Accessories for CCTV – IP
Enclosures for CCTV recorders
Vertical – with monitor space

Enclosure construction is compliant with requirements of General Data Protection Regulation (GDPR), as personal data must be protected and stored securely.

Enclosures protect recorder against unauthorized access or theft. They are made of 1,2mm thickness steel.

Due to vertical installation and low depth, they are ideal for places where deeper enclosures or cabinets RACK 19″ type cannot be installed. After opening enclosure, front cover are held in horizontal position, providing easy access to buttons on front panel of recorder.
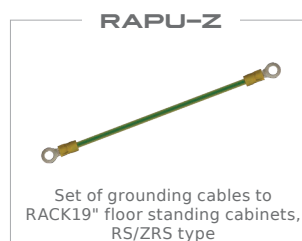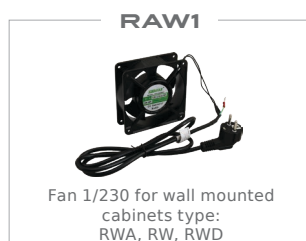
Warranty: 2 years

Sample product
AWO534G

Code	Colour	Possibility to install ARAW45 fan RAW1	Place for a monitor, standard VESA: 50 / 75 / 100	RACK brackets	Knock-outs	Number of locks (same code)	External dimensions of enclosure WxHxD+D$_2$ [+/- 2mm]	Dimensions of recorder space W$_1$xH$_1$xD$_1$ [+/- 2mm]
AWO534	black	✓ (left or right side)	✓ max width: 495mm	Top of enclosure 1U: 10" / 19" Additional elements: 1U – 1 set 2U – 2 sets 3U – 1 set	4 x Ø 50mm (top of enclosure)	2 pcs.	600×600×200+2,5	475×50×355
AWO534G	grey							

Accessories:

RAZ534

Various code lock for AWO534/534G enclosures

RAW1

Fan 1/230 for wall mounted cabinets type: RWA, RW, RWD

RAPU–Z

Set of grounding cables to RACK19" floor standing cabinets, RS/ZRS type

ZPR

Set of two straps for mounting recorder

Accessories CCTV – IP
PoE desktop type power supplies 54 V DC
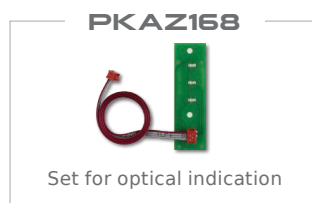## PWB series

- power supply: 200 – 240 V AC
- available models: 52 V DC / 1,15A
  52 V DC / 2,3A
- dedicated for PoE supplying systems
- START button for manual battery connection
- deep discharge battery protection (UVP)
- protections:
  - SCP short circuit protection, OLP overload protection, surge protection
- optional equipment:
  - set of LED optical indication PKAZ168
  - DIN4 mounting plate
- warranty: 2 years

Sample product:
PWB-52V2A

Code	Output voltage	Total current	Battery charging current	Recomended batteries	Dimensions L×W×H [+/- 2mm]
PWB-52V1A	52 V DC	1,15A	0,5A	1× 7 – 17Ah	200×120×48
PWB-52V2A		2,3A		2× 7 – 17Ah	204×141×52

Accessories:

DIN4

Mounting plate (allows mounting power supplies on TH35 rail)

PKAZ168

Set for optical indication

Accessories CCTV – IP
PoE desktop type power supplies – 52 V DC
PSP series

- power supply: 100 – 240 V AC;
- power supply outputs: 52 V DC/0,3A; 52 V DC/0,5A; 55 V DC/1,1A – PoE/RJ45;
- compliance with IEEE 802.3af/at/bt standard *;
- LED optical signalization;
- protections:
  - OLP overload protection;
  - overvoltage protection (AC input);
- notes:
  - designed for 10/100/1000 Mb/s network;
- warranty: 2 years.

* depending on model

Code	Output voltage	Output current	Compliance with / IEEE 802.3... standard	Dimensions L×W×H [+/- 2mm]
PSP52003	52 V DC	0,3A	af	119×61×38
PSP520050	52 V DC	0,5A	af/at	116x50x32
PSP550110	55 V DC	1,1A	af/at/bt	145x57x41

Accessories CCTV – IP

CONVERTERS

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More information at www.pulsar.pl

Contact us

Pulsar
Siedlec 150
32-744 Lapczyca, Poland

sales@pulsar.pl

+48 14 610 19 45

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