ALARMTECH

Certified Switch Mode Power Supply Program
12 V and 24 V

Alarmtech PSV Certified EN Grade 3 Switch Mode Power Supply Program with Battery Backup



Features:

- **EN Grade 3 Certified Switch Mode Power Supplies**
- **Input 230 V AC**
- **Output voltage 12 V and 24 V DC**
- **Units and Modules certified by VdS for EN Grade 3**
- **Safety and EMC approved and Certified by INTERTEK**

VdS Inspected. Approved. Safe.

intertek Total Quality. Assured.

IEC

SBSC APPROVED PRODUCT

Certified products

Alarmtech has developed a PSV program for 12V and 24V with battery back-up. They are Certified at the German test laboratory Verband der Schaden-verhütung (VdS) for EN Grade 3 which is valid in most European countries. Often is seen that power supply products are named Complied with EN Grade 3 but it means it is not approved and certified for use in Grade 3 installations. But they can eventually be approved and certified if tested. Therefore, Alarmtech has Tested and Certified the new PSV program at VdS and can then easily get national certifications in most countries in Europe. In Sweden this certification is made by SBSC.

The PSV program is also tested and approved for Safety and EMC by INTERTEK to satisfy the modern Security Industry´s claim for high quality and performance.

VdS Inspected. Approved. Safe.

intertek Total Quality. Assured.

IEC

SBSC APPROVED PRODUCT

Alarmtech PSV Power Supply Program with battery charging

Modular power supply systems

The power supply program is intended for the Security Industry as well as for the industry that require continuous DC power in the event of mains failure or mains disturbances. It is a flexible system with standardized modules of power units and cabinets to enable custom design for customers.

The new PSV system with its modular and compact design represents a perfect solution for a wide range of applications.

The power supply features:

- Universal modular power supply ranges for DC systems
- Output voltages 12 V and 24 V
- Operation with or without batteries
- Comprehensive alarm and monitoring functions
- EN Grade 2 & 3 approved by VdS
- Safety and EMC approved by INTERTEK

1. Power module versions

The modules represents a complete power supply unit and can operate as a single or parallel operating unit in a wide range of different standard or customized cabinet solutions. They are certified as standalone units to be built in to customer's cabinets simplifying further approvals.

A separate PCB with LED display is available as an option for the complete configuration and monitoring of all module functions.

Together with vented or valve-regulated lead acid batteries the power supply systems provide continuous DC power with high availability for mission critical loads.

The Power modules consists of power modules with DC output voltages of 12 V and 24 V.

The output characteristic of the power supply range follows DIN 41773 charging procedure. The excellent dynamic performance of the ADC range also allows stand-alone operation without batteries.

2. Wall cabinet versions

Standard sizes of wall cabinets are available which can accommodate the operating modules.

These cabinets also provide space for a limited number of standard functional modules and customer units.

The doors are equipped with a LED display that indicates state of operation and failure modes. All wall cabinets are designed to meet IEC protection class IP 21.

3. Rack mounted versions

Available are also rack mounted cabinets where all modules fits. These cabinets can also accommodate a series of standard functional modules and customer's units.

Alarmtech PSV Power Supplies have following monitoring functions:

High DC output voltage

If the DC output voltage rises above the legal level, the output is shut down.

Low DC output voltage

If the voltage output falls below specified output level an internal alarm indication will be triggered linked to the out Alarm relay and indicated with a red LED.

Mains failure

In case of mains failure, the alarm signal activates the common fault alarm relay and the green LED indication is switched off. If the mains voltage returns, the power supply restarts and the alarm signal and relay will reset. During mains fault, only battery assisted systems continue to supply DC output voltage.

Battery circuit test

When triggered the computer disconnects the battery from installation if mains are ON, connects the battery to an internal load and measures the battery internal resistance. The value should be within certain limits defined by battery capacity, and if outside the limits a fault will be triggered. This function is triggered at start-up of the module and then automatically every 10 hours. It can be manually triggered by the jumper on the PCB or remotely if SDT terminal is connected. Default position is open and triggering is a momentary shunt to minus. If SDT is permanently shunted the battery charging is disabled and the entire current capacity can be used to installation.

If the battery voltage falls below specified level, the common internal fault relay will activate and the red LED lights up.

Deep discharge protection

During battery operation the voltage level of the battery is constant monitored and if the voltage drops below a level that is safe for the battery survival the battery is switched off from the installation.

ViP features

ViP (Voltage-in-Parallel) feature increases reliability and capacity of power supply systems. Power supplies with ViP feature can be connected in parallel without need for additional synchronization and can be used to increase current capacity or compensate voltage drop on long wire distances reducing the cost for the wires.

ViP include load share facility. When units are paralleled, connected system is automatically balanced and each unit contribute to the total load according to its current capacity.

Kick Start

During installation with no mains, but battery connected, there will be no output voltage from power supply. By momentary shunting the kick start jumper the output voltage will be enabled and installation is supplied from the battery. This function is introduced to prevent the battery to be discharged accidentally during installation.

Failure outputs

All with separate relay and LED indication

- EPS Mains failure
- APS Battery failure
- OUT DC output failure
- SAB Opening and Pry-Off failure



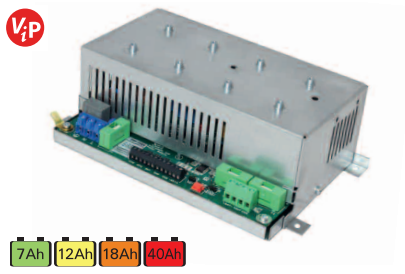
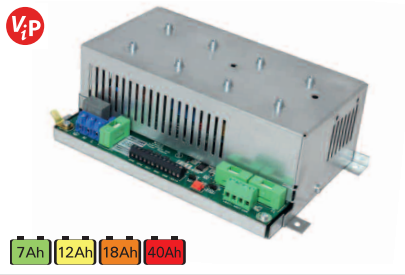
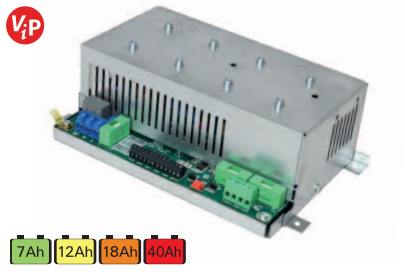
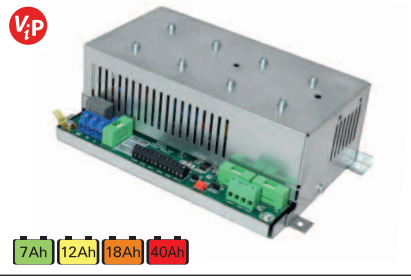
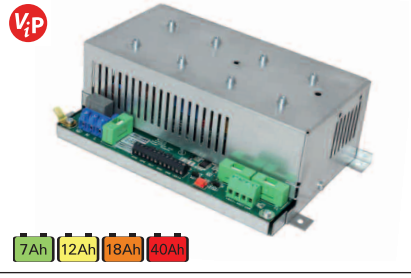
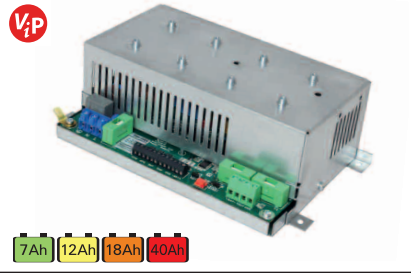
Power Supply Units

Alarmtech Order nr	Picture	Description
PSV 1235-B1 Certificates VdS: EN 50131-6 Grade 3 VdS: EN 50130-5 Class II INTERTEK: Safety EN 62368-I:2014/A11:2017 INTERTEK: EMC EN 61000-6-3		***Power Supply Unit with battery charging:*** • Input - 230 V AC • Output - **12 V, 3.5 A DC** • ViP mode • Place for one battery of capacity 7Ah or 12Ah or 18Ah • Dimensions (WxHxD): 265 x 385 x 115 mm
PSV 1265-B1 Certificates VdS: EN 50131-6 Grade 3 VdS: EN 50130-5 Class II INTERTEK: Safety EN 62368-I:2014/A11:2017 INTERTEK: EMC EN 61000-6-3		***Power Supply Unit with battery charging:*** • Input - 230 V AC • Output - **12 V, 6.5 A DC** • ViP mode • Place for one battery of capacity 7Ah or 12Ah or 18Ah • Dimensions (WxHxD): 265 x 385 x 115 mm
PSV 2435-B2 Certificates VdS: EN 50131-6 Grade 3 VdS: EN 50130-5 Class II INTERTEK: Safety EN 62368-I:2014/A11:2017 INTERTEK: EMC EN 61000-6-3		***Power Supply Unit with battery charging:*** • Input - 230 V AC • Output - **24 V, 3.5 A DC** • ViP mode • Place for two batteries of capacity 7Ah or 12Ah or 18Ah • Dimensions (WxHxD): 385 x 385 x 115 mm
PSV 2465-B2 Certificates VdS: EN 50131-6 Grade 3 VdS: EN 50130-5 Class II INTERTEK: Safety EN 62368-I:2014/A11:2017 INTERTEK: EMC EN 61000-6-3		***Power Supply Unit with battery charging:*** • Input - 230 V AC • Output - **24 V, 6.5 A DC** • ViP mode • Place for two batteries of capacity 7Ah or 12Ah or 18Ah • Dimensions (WxHxD): 385 x 385 x 115 mm
PSV 2465- R1 Certificates VdS: EN 50131-6 Grade 2 VdS: EN 50130-5 Class II INTERTEK: Safety EN 62368-I:2014/A11:2017 INTERTEK: EMC EN 61000-6-3		***Power Supply Unit with battery charging for Rack-mounting:*** • Input - 230 V AC • Output - **24 V, 6.5 A DC** • ViP mode • Place for two batteries of capacity 7Ah or 12Ah • Dimensions (WxHxD): 482 x 132 x 292 mm
PSV 2465-A1 Certificates VdS: EN 50131-6 Grade 3 VdS: EN 50130-5 Class II INTERTEK: Safety EN 62368-I:2014/A11:2017 INTERTEK: EMC EN 61000-6-3		***Power Supply Unit with battery charging:*** • Input - 230 V AC • Output - **24 V, 6.5 A DC** • ViP mode • Place for two batteries of capacity 40Ah • Dimensions (WxHxD): 425 x 440 x 200 mm

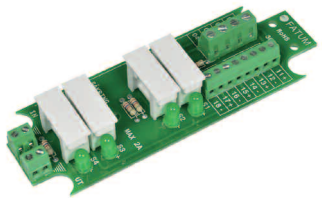
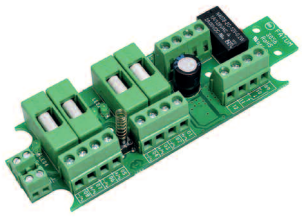
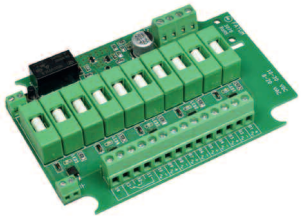
Steel Boxes for modules and batteries

Alarmtech Order nr	Picture	Description
Box B1		***Steel Box for:*** • Any module • One battery of capacity 7Ah or 12Ah or 18Ah • Dimensions (WxHxD): 265 x 385 x 115 mm • Colour: Grey or White
Box B2		***Steel Box for:*** • Any module • Two batteries of capacity 7Ah or 12Ah or 18Ah • Dimensions (WxHxD): 385 x 385 x 115 mm • Colour: Grey or White
Box R1		***Steel Box for Rack-mounting for:*** • Any module • Two batteries of capacity 7Ah or 12 Ah • Dimensions (WxHxD): 482 x 132 x 292 mm • Colour: Grey or White
Box A1		***Steel Box for:*** • Any module • Two batteries of capacity 40Ah • Dimensions (WxHxD): 425 x 440 x 200 mm • Colour: Grey or White

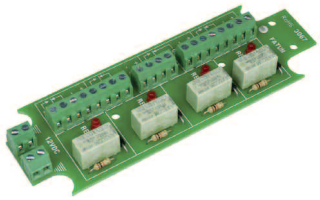
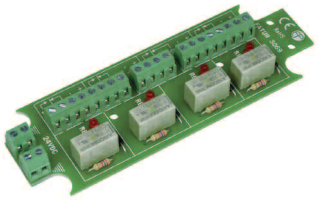
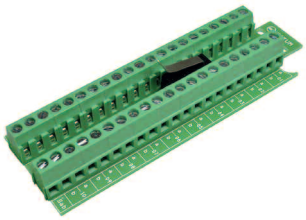
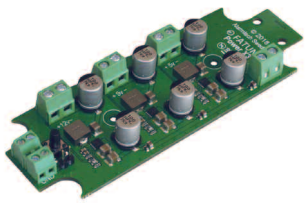
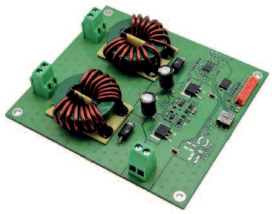
Power Supply Modules

Alarmtech Order nr	Picture	Description
PSV 1265-M		***Power supply module with battery charging:*** • Input - 230 V AC • Output - **12 V, 6.5 A DC** • ViP mode • Ready to work with redundancy cards • Ready to work with batteries of capacities 7Ah, 12Ah, 18Ah, 40Ah • Certified by INTERTEK for build in application
PSV 1235-M		***Power supply module with battery charging:*** • Input - 230 V AC • Output - **12 V, 3.5 A DC** • ViP mode • Ready to work with redundancy cards • Ready to work with batteries of capacities 7Ah, 12Ah, 18Ah, 40Ah • Certified by INTERTEK for build in application
PSV 1215-M		***Power supply module with battery charging:*** • Input - 230 V AC • Output - **12 V, 1.5 A DC** • ViP mode • Ready to work with redundancy cards • Ready to work with batteries of capacities 7Ah, 12Ah, 18Ah, 40Ah • Certified by INTERTEK for build in application
PSV 2465-M		***Power supply module with battery charging:*** • Input - 230 V AC • Output - **24 V, 6.5 A DC** • ViP mode • Ready to work with redundancy cards • Ready to work with batteries of capacities 7Ah, 12Ah, 18Ah, 40Ah • Certified by INTERTEK for build in application
PSV 2435-M		***Power supply module with battery charging:*** • Input - 230 V AC • Output - **24 V, 3.5 A DC** • ViP mode • Ready to work with redundancy cards • Ready to work with batteries of capacities 7Ah, 12Ah, 18Ah, 40Ah • Certified by INTERTEK for build in application
PSV 2415-M		***Power supply module with battery charging:*** • Input - 230 V AC • Output - **24 V, 1.5 A DC** • ViP mode • Ready to work with redundancy cards • Ready to work with batteries of capacities 7Ah, 12Ah, 18Ah, 40Ah • Certified by INTERTEK for build in application

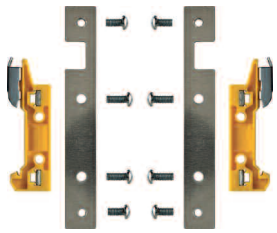
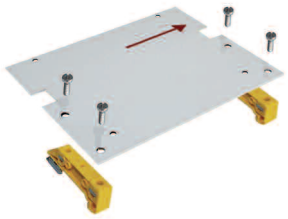
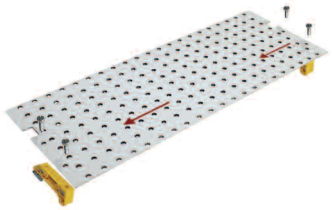
Accessories that fits on top of module and in the box

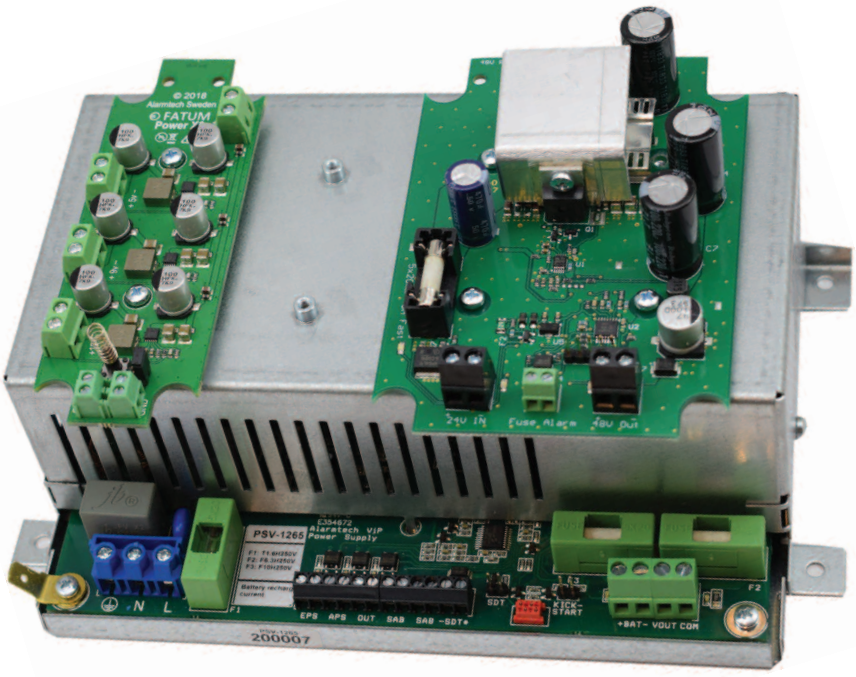
Alarmtech Order nr	Picture	Description
Fuse Cards		
3058.03		***Fuse card 12V/24V:*** • Splits power output to 4 sections • 4 single fuses • 10–60 V
3056.03		***Fuse card 12V/24V:*** • Splits power output to 4 sections • 4 single fuses • Fuse failure relay • 10–30 V
3071.03		***Fuse card 12V/24V:*** • Splits power output to 5 sections • 5 dual fuses • Fuse failure relay • 10–30 V
PSV 24FC-6		***Fuse card 12V/24V:*** • Splits power output to 6 sections • 6 dual fuses • Ground failure circuit • Fuse failure relay • Ground failure relay • 10–30 V • Don't fit on top of module
Relay modules		
3063.03		***Relay module*** • 2 relays with 2 separate switching contacts each (DPDT) • 8–15 V
3064.03		***Relay module*** • 2 relays with 2 separate switching contacts each (DPDT) • 22–30 V

Accessories that fits on top of module and in the box

Alarmtech Order nr	Picture	Description
3067.03		***Relay module*** • 4 relays with 1 switching contact each (SPDT) • 8–15 V
3069.03		***Relay module*** • 4 relays with 1 switching contact each (SPDT) • 22–30 V
Junction Card		
3034.03		***Junction terminal module:*** • Screw terminals – 20 pairs • For cables dimension 0,2 – 2,5 mm^2 • Sabotage contact
DC / DC converters		
3098.03		***DC / DC Converter*** • From 24 V to 48 V / 3A • To use with PoE switches etc.
3097.03		***DC / DC Converter*** • 12–24 V input • 12, 9, 5 V output (max 2 A each)
Redundancy Card		
PSA-R		***Redundancy Card with three ports to build any size of redundant system:*** • Protects nodes and can transmit detailed data of actual flow of energy • Don't fit on top of module

Accessories that fits on top of module and in the box

Alarmtech Order nr	Picture	Description
DIN-mounting modules		
PSV-DIN **PSA-DIN**		***Mounting kit for DIN rail mounting***
MFC-DIN		***Mounting plate for the fuse card PSV 24FC-6***
MKK-DIN		***Mounting plate for customized products***



On the PSV module there are punched holes for easy installation of relay modules, fuse cards or DC/DC converters.

VdS certificates for 12V and 24V
boxes A1, B1, B2, B3
EN Grade 3, Environmental Class II
EN-ST-000279 and EN-ST-000216

VdS Member of

Certificate of Conformity with European standards for Components and Systems

Number of Certificate	Valid from dd-mm-yyyy	Valid until dd-mm-yyyy
EN-ST-000279	12-04-2021	11-04-2025

Subject matter of Certificate:

Power supply equipment grade 3
PSV 1265-M / PSV 1235-M / PSV 1215-M

Owner of Certificate:

Alarmtech Sweden AB
Staffans Vag 6A
SE-192 78 SOLLENTUNA
Sweden

Basis for certification:

EN 50131-6:2017

Use, the product disposes of the following parameters:

Intrusion and hold-up systems, Grade 3

The tests were carried out at VdS Schadenverhütung GmbH and the results are documented in ***test report:***

201395-AU01+STE01-PB01 dated 07-04-2021

To guarantee the permanent quality of products a regular surveillance of the manufacturing process is performed.

This certificate comprises **5** *pages and shall only be reproduced without any modifications and including all enclosures.*

VdS Schadenverhütung GmbH
Certification Body
Amsterdamer Str. 174
D-50735 Köln

A company of the German Insurance Association (GDV) accredited by DAkkS as certification body for fire protection and security products

DAkkS Deutsche Akkreditierungsstelle D-ZE-11149-01-01

Date: 12-04-2021

Managing director — Head of certification body

VdS Member of

Certificate of Conformity with European standards for Components and Systems

Number of Certificate	Valid from dd-mm-yyyy	Valid until dd-mm-yyyy
EN-ST-000216	12-04-2021	29-11-2023

Subject matter of Certificate:

Power supply equipment grade 3
PSV 2465-M / PSV 2435-M / PSV 2415-M

Owner of Certificate:

Alarmtech Sweden AB
Staffans Vag 6A
SE-192 78 SOLLENTUNA
Sweden

Basis for certification:

EN 50131-6:2017

Use, the product disposes of the following parameters:

Intrusion and hold-up systems, Grade 3

The tests were carried out at VdS Schadenverhütung GmbH and the results are documented in ***test report:***

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VdS Schadenverhütung GmbH
Certification Body
Amsterdamer Str. 174
D-50735 Köln

A company of the German Insurance Association (GDV) accredited by DAkkS as certification body for fire protection and security products

DAkkS Deutsche Akkreditierungsstelle D-ZE-11149-01-01

Date: 12-04-2021

Managing director — Head of certification body

VdS Certificates for 12V and 24V
Box R1
EN Grade 2, Environmental Class II
EN-ST-000280 and EN-ST-000281

VdS Member of esfg

Certificate of Conformity with European standards for Components and Systems

Number of Certificate	Valid from dd-mm-yyyy	Valid until dd-mm-yyyy
EN-ST-000280	12-04-2021	11-04-2025

Subject matter of Certificate:

Power supply equipment grade 2
PSV 1265-M / PSV 1235-M / PSV 1215-M

Owner of Certificate:

Alarmtech Sweden AB
Staffans Vag 6A
SE-192 78 SOLLENTUNA
Sweden

Basis for certification:

EN 50131-6:2017

Use, the product disposes of the following parameters:

Intrusion and hold-up systems, Grade 2

The tests were carried out at VdS Schadenverhütung GmbH and the results are documented in **test report:**

201395-AU01+STE01-PB01 dated 07-04-2021

VdS Schadenverhütung GmbH
Certification Body
Amsterdamer Str. 174
D-50735 Köln

A company of the German Insurance Association (GDV) accredited by DAkkS as certification body for fire protection and security products

DAkkS Deutsche Akkreditierungsstelle D-ZE-11149-01-01

To guarantee the permanent quality of products a regular surveillance of the manufacturing process is performed.

This certificate comprises **4** pages and shall only be reproduced without any modifications and including all enclosures.

Date: **12-04-2021**

Managing director — Head of certification body

VdS Member of esfg

Certificate of Conformity with European standards for Components and Systems

Number of Certificate	Valid from dd-mm-yyyy	Valid until dd-mm-yyyy
EN-ST-000281	12-04-2021	11-04-2025

Subject matter of Certificate:

Power supply equipment grade 2
PSV 2465-M / PSV 2435-M / PSV 2415-M

Owner of Certificate:

Alarmtech Sweden AB
Staffans Vag 6A
SE-192 78 SOLLENTUNA
Sweden

Basis for certification:

EN 50131-6:2017

Use, the product disposes of the following parameters:

Intrusion and hold-up systems, Grade 2

The tests were carried out at VdS Schadenverhütung GmbH and the results are documented in **test report:**

201395-AU01+STE01-PB01 dated 07-04-2021

VdS Schadenverhütung GmbH
Certification Body
Amsterdamer Str. 174
D-50735 Köln

A company of the German Insurance Association (GDV) accredited by DAkkS as certification body for fire protection and security products

DAkkS Deutsche Akkreditierungsstelle D-ZE-11149-01-01

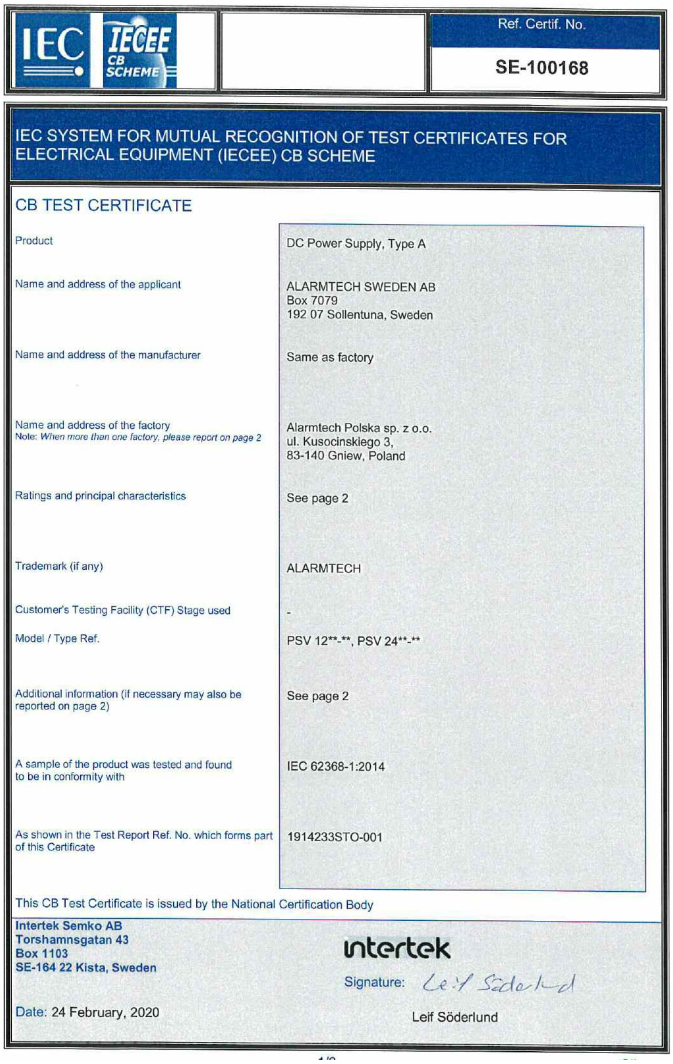
To guarantee the permanent quality of products a regular surveillance of the manufacturing process is performed.

This certificate comprises **4** pages and shall only be reproduced without any modifications and including all enclosures.

Date: **12-04-2021**

Managing director — Head of certification body

INTERTEK Certificates
Boxes A1, B1, B2, B3 with built in modules for 12V and 24V
SE-100168



IEC IECEE CB SCHEME

Ref. Certif. No.
SE-100168

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	DC Power Supply, Type A
Name and address of the applicant	ALARMTECH SWEDEN AB Box 7079 192 07 Sollentuna, Sweden
Name and address of the manufacturer	Same as factory
Name and address of the factory Note: *When more than one factory, please report on page 2*	Alarmtech Polska sp. z o.o. ul. Kusocinskiego 3, 83-140 Gniew, Poland
Ratings and principal characteristics	See page 2
Trademark (if any)	ALARMTECH
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	PSV 12**-**, PSV 24**-**
Additional information (if necessary may also be reported on page 2)	See page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
As shown in the Test Report Ref. No. which forms part of this Certificate	1914233STO-001

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Torshamnsgatan 43
Box 1103
SE-164 22 Kista, Sweden

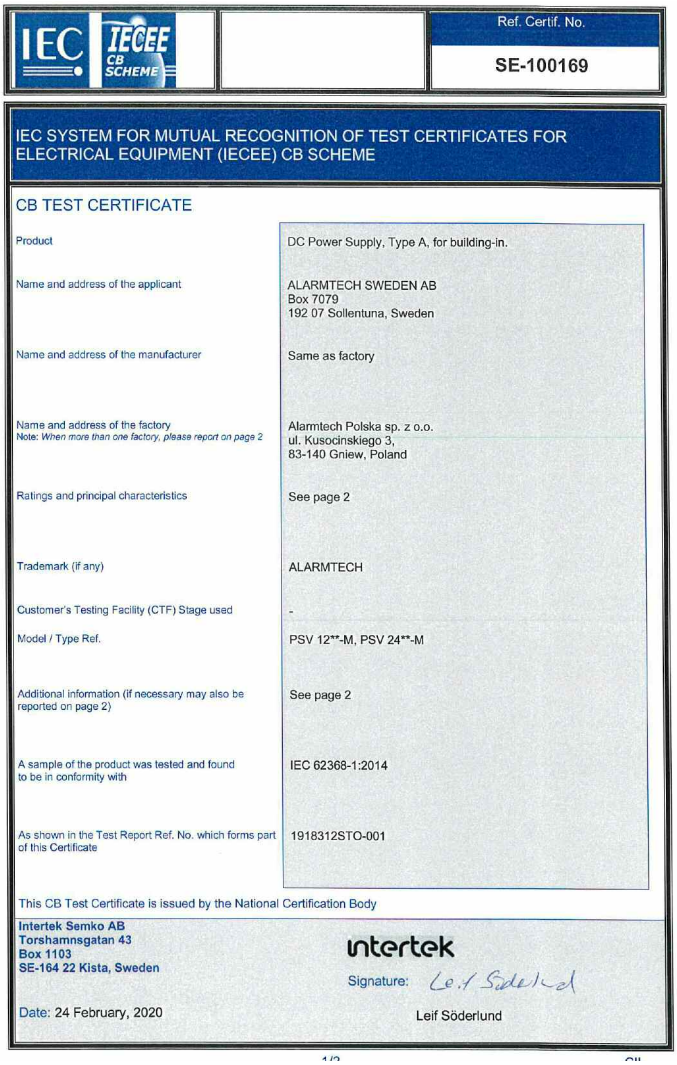
intertek

Signature: Leif Söderlund

Date: 24 February, 2020

Leif Söderlund

INTERTEK Certificates
Modules for built in
PSV 12**-M, PSV 24**-M
SE-100169



IEC IECEE CB SCHEME

Ref. Certif. No.
SE-100169

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product	DC Power Supply, Type A, for building-in.
Name and address of the applicant	ALARMTECH SWEDEN AB Box 7079 192 07 Sollentuna, Sweden
Name and address of the manufacturer	Same as factory
Name and address of the factory Note: *When more than one factory, please report on page 2*	Alarmtech Polska sp. z o.o. ul. Kusocinskiego 3, 83-140 Gniew, Poland
Ratings and principal characteristics	See page 2
Trademark (if any)	ALARMTECH
Customer's Testing Facility (CTF) Stage used	-
Model / Type Ref.	PSV 12**-M, PSV 24**-M
Additional information (if necessary may also be reported on page 2)	See page 2
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014
As shown in the Test Report Ref. No. which forms part of this Certificate	1918312STO-001

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Torshamnsgatan 43
Box 1103
SE-164 22 Kista, Sweden

intertek

Signature: Leif Söderlund

Date: 24 February, 2020

Leif Söderlund

SBSC certificate for 12V and 24V
Boxes A1, B1, B2, B3
Nr 21-03 and Nr 21-205 Alarm Class 3, Environmental Class II



SBSC
SVENSK BRAND- OCH SÄKERHETSCERTIFIERING

APPROVED

According to "Certification regulations Product Certification"
Svensk Brand- och Säkerhetscertifiering AB, Tegeluddsvägen 100, 115 28 Stockholm, Sweden

No21-203

Power supply equipment
PSV 1265, 1235, 1215 Larmklass 3

Fulfils the requirements in Alarm Class 3 Environmental Class II according to
SSF 1014, utgåva 5

Certificate holder is
Alarmtech Sweden AB
Staffans väg 6A , Sollentuna

The approval is valid
2021-06-15 until 2026-06-14

Stockholm 2021-06-15

Mårten Wallén
Managing Director

SBSC
APPROVED PRODUCT



SBSC
SVENSK BRAND- OCH SÄKERHETSCERTIFIERING

APPROVED

According to "Certification regulations Product Certification"
Svensk Brand- och Säkerhetscertifiering AB, Tegeluddsvägen 100, 115 28 Stockholm, Sweden

No21-205

Power supply equipment
PSV 2465, 2435, 2415 Larmklass 3

Fulfils the requirements in Alarm Class 3 Environmental Class II according to
SSF 1014, utgåva 5

Certificate holder is
Alarmtech Sweden AB
Staffans väg 6A , Sollentuna

The approval is valid
2021-06-15 until 2026-06-14

Stockholm 2021-06-15

Mårten Wallén
Managing Director

SBSC
APPROVED PRODUCT

SBSC Certificate for 12V and 24V
Box R1
Nr 21-202 and Nr 21-204 Alarm Class 2, Environmental Class II



SBSC SVENSK BRAND- OCH SÄKERHETSCERTIFIERING

APPROVED

According to "Certification regulations Product Certification"
Svensk Brand- och Säkerhetscertifiering AB, Tegeluddsvägen 100, 115 28 Stockholm, Sweden

No21-202

Power supply equipment
PSV 1265, 1235, 1215 Larmklass 2

Fulfils the requirements in Alarm Class 2 Environmental Class II according to
SSF 1014, utgåva 5

Certificate holder is
Alarmtech Sweden AB
Staffans väg 6A , Sollentuna

The approval is valid
2021-06-15 until 2026-06-14

Stockholm 2021-06-15

Mårten Wallén
Managing Director

SBSC APPROVED PRODUCT



SBSC SVENSK BRAND- OCH SÄKERHETSCERTIFIERING

APPROVED

According to "Certification regulations Product Certification"
Svensk Brand- och Säkerhetscertifiering AB, Tegeluddsvägen 100, 115 28 Stockholm, Sweden

No21-204

Power supply equipment
PSV 2465, 2435, 2415 Larmklass 2

Fulfils the requirements in Alarm Class 2 Environmental Class II according to
SSF 1014, utgåva 5

Certificate holder is
Alarmtech Sweden AB
Staffans väg 6A , Sollentuna

The approval is valid
2021-06-15 until 2026-06-14

Stockholm 2021-06-15

Mårten Wallén
Managing Director

SBSC APPROVED PRODUCT

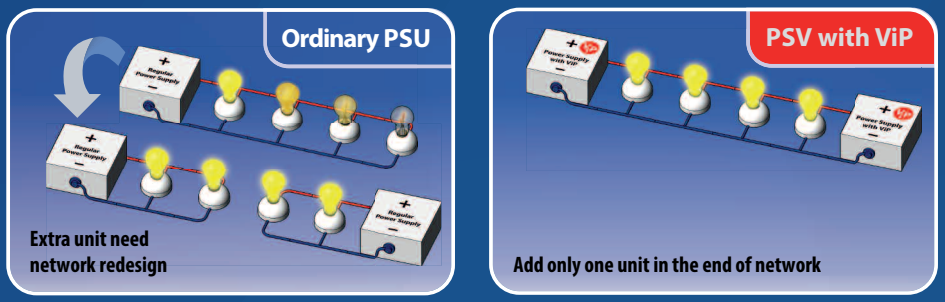
ALARMTECH

Certified Switch Mode Power Supply Program 12 V and 24 V

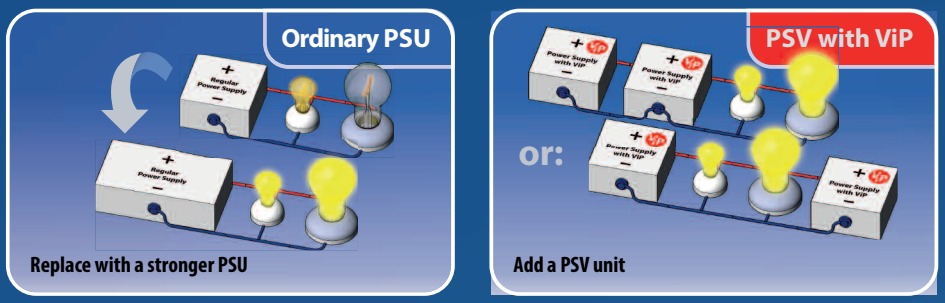
Features of PSV with ViP

- PSV units with same voltage output can be parallelled connected: (+) to (+) och (–) to (–).
- PSV units with different current output can be parallelled connected.
- PSV units parallelled connected balance the current output to get even load on each unit.
- PSV units can be parallelled connected in any number.
- PSV units battery charging outputs can be parallelled connected.
- PSV units cooperate with each battery capacity at mains failure.
- PSV units are protected against shortage, overload and deep discharge of battery.
- PSV units has fault indication for mains failure (EPS), battery failure (APS) and low voltage output (OUT) each with a relay and LED indication.
- PSV units Batteritest is automatic and can be manually or remotely controlled.
- PSV units are sabotage protected for opening and pry off.

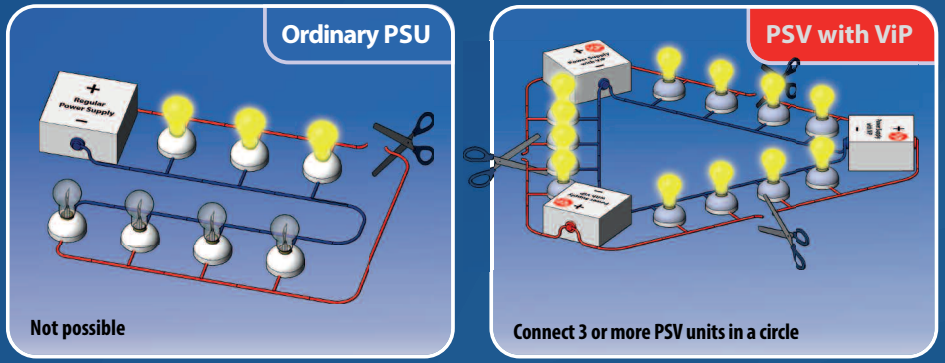
Voltage drop compensation in a network



More current is needed



Make a redundant power supply system



ALARMTECH

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