

PRODUCT SHEET - POWER SUPPLY FROM MILLETEKNIK

PoE



temperatures from -15°C to +35°C, IP65 rated. Prepared for mounting on a pole and prepared for logger function for collecting data.

Voltage, current and power

Mains voltage: 230 V AC - 240 V AC, 47 Hz - 63 Hz.

Self-consumption is the power outlet the circuit board has when the system is deployed and in battery operation.

Name, article number and e-number

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Name	Article number	E-number (SV)
PoE Managed switch 4p 24V 5A UT L	SA54P30024P050P-UT01	51 731 58

Description

Outdoor PoE power supply, 24 V, 5 A, with space for two 45 Ah batteries.

Area of use

Power supply with backup power to power PoE devices such as surveillance cameras, 3-5G routers and has a 24 V output to be able to power other alarm components. Remote monitoring and control of PoE ports is possible. Batteries are located in a heated, thermostatically controlled and insulated part of the enclosure.

Long life, energy efficient and support is available if something goes wrong, now or in 10 years.

Common uses

- Power supply of surveillance cameras.

Technical description

Contains a 4-port managed Gbit PoE+ switch with 30.8W per port, a total of 150W including battery recharge. Can be managed over VPN¹ for control and status monitoring including power consumption per port. Equipped with total alarm and 24V output from the backup for operation of other equipment. Thermostatically controlled, insulated compartment for batteries and temperature sensor for protection against overcharging. Works in tem-

Self-consumption

Circuit Boards	Self-consumption (in battery operation)	Commentary
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Voltage out: 24 V DC. Auxiliary voltage 24 V DC.

Voltage output in battery operation: 24 V DC.

Current: 2.5 A. PoE / 48 V DC gives 130 W. 24 V gives a maximum of 1 A at maximum load on all four PoE ports.

Charging current: Depending on the power outlet. 1-5 A.

Effect: 150W. ².

Max power per port: 30.8 W.

Number of PoE Ports: + two ethernet not PoE-fed.

Load outputs

PoE switch can drive load to PoE devices and motherboard can drive one (1) 24V load output to drive other applications. Cabling is available for installation of options.

Alarm

Alarms are given for: Delayed power failure alarm or low battery voltage, disconnected batteries, fuse failure and overcharging of batteries.

Alarm over RJ-45, see manual for alarms that PoE switch can give.

Protection

Protection against overload, overvoltage, overtemperature, short circuit and deep discharge.

¹VPN requires externally connected hardware and software (PC) connected to the PoE switch.

²For charging batteries, operation of managed PoE switch with four controlled ports and operation of 3-5G router and 24 V auxiliary output.

Fuses

Mains fuse:

Battery fuse:

Indications and communication

PoE power supply can as an option, communicate via protocol (RS-485/I²C) against UC. (ASSA ABLOY, RCO, Sentrion, Unison, Bravida, Vanderbilt/ACRE and Tidomat - this can only be set from the factory and cannot be changed by users or technicians).

Indicator diode shows the status of the device.

Battery and battery type

Battery type: 12 V, AGM lead-acid battery, maintenance-free. Batteries not included. Battery sizes must not be mixed.³

Two 45 Ah batteries.

Batteries.

Item number	Ah	Net weight pcs.	Weight w. package
MT113-12V45A-01	45	29.5 kg	30 kg

Backup operating time on batteries

The reserve operating time in battery operation depends on how large a load is connected to the power supply. If the load varies, as with frequent opening of door locks, the time that batteries can continue to power the security system decreases. To get an estimate of reserve operating times see: www.milleteknik.se/Manualer/FaQ/Reservdrifttider/

Enclosure

Dimensions, with and without packaging.

Dimensions, height x width x depth. ^a	Dimensions with packaging.
500 x 400 x 250 mm	515 x 415 x 308 mm

^aDimensions of product and packaging may differ, this is because the product may lie differently in the packaging.

Height units, fan and IP class.

HE	Built-in fan	IP class
12 ^a	Yes	IP65

^aCannot be mounted in a 19" rack.

³The number of batteries listed represents the maximum number that the device can handle at the same time. If multiple battery sizes are specified, this means that the device can only accommodate one battery size at a time.

Weight

Weight.

Name	Net weight	Weight incl. packaging
PoE Managed switch 4p 24V 5A UT L	14.5 kg	15 kg

Installation requirements

The device is intended for fixed installation. Ambient temperature: – 15°C to +35°C.

Requirements that the product meets

The product meets the following requirements.

EMC:	EMC Directive 2014 / 30EU
Electricity:	Low voltage directive: 2014/35 / EU
CE:	CE directive according to: 765/2008
Emission:	EN61000-6-: 2001 EN55022: 1998: -A1: 2000, A2: 2003 Klass B, EN61000-3-2: 2001
Immunity:	EN61000-6-2:2005, EN61000-4-2, -3, 4, -5, -6, -11 SS-EN 50 130-4:2011 Edition 2, EN50131-6



NOTE

The product is part of electrical systems, is subject to the relevant electrical and safety directives and is not a machine according to the Machinery Directive (2006/42/EC).



Guarantee

The product has a two-year warranty for manufacturing defects. Batteries and wearing parts are not covered by warranty. Components that are manufactured by a manufacturer other than Milleteknik are not covered by Milleteknik's warranty.

Expandable, options and accessories

The product can be extended with a: [Voltage Converter 24V-12V 2A](#) and various 3-5G routers.

Manufacturing, lifespan, environmental impact and recycling

Manufactured by Milleteknik in Partille, Sweden.

The product is designed for a long service life, which reduces the environmental impact. End-of-life products are handed over to the nearest recycling centre.

Miscellaneous

The difference between PoE, PoE+ and PoE++.

Max power PoE.

-	PoE	Poe+	PoE++
Official name	IEEE 802.3af	IEEE 802.3at	IEEE 802.3bt
Maximum power	13 W	25 W	71 W
Compatible ^a	-	PoE	PoE, PoE+

^aThe power supply follows "up", but not "down". A PoE can never power a PoE+/PoE++ device that requires more than 13 W.

About this information

All information is published subject to possible errors. Information is updated without prior notice.

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