

PRODUCT SHEET

Product image



Name, article number and e-number

Table 1. Name, article number and email number

Name	Item number	E-number (sv)
Voltage-converter WR	A-VC002404A04LM01	5213774

Technical description

[sv] DC/DC-omvandlare med styrning och för konvertering till lägre spänningsnivå (24 V DC, 12 V DC, 6 V DC och 5 V) i Milletekniks strömförsörjningssystem. Kortet monteras som tillval och möjliggör flexibel anpassning av utspänning samt larmåterkoppling till överordnat system. Styrning: CTRL -> GND = OFF.

[sv]

[sv]

Table 2. Quick Facts

Quick Facts	
Supply voltage (V)	[sv] 48, 24, 12 V DC.
Voltage out (V)	[sv] 24, 12, 6, 5 V DC.
Accessories for	Outdoor Enclosures.

Areas of application

Table 3. [sv] Användningsområden

Areas of application	Yes	No
[sv] Används där annan, lägre, spänningsnivå krävs för att driva exempelvis dörrlåsare, lås och andra anslutna enheter	✓	

Electronics

Table 4. [sv] Elektriska data

[sv] Elektriska data	
[sv] Matningsspänning	[sv] 48, 24, 12 V DC.
[sv] Standbyförbrukning	[sv] 0,53 W
[sv] Spänning ut	[sv] 24, 12, 6, 5 V DC.

Table 5. [sv] Max strömuttag

[sv] Inkommande spänning ^a	[sv] 48 V	[sv] 24 V	[sv] 12 V
[sv] 24 V	[sv] 2,3 A	[sv] -	-
[sv] 12 V	[sv] 3,7 A	[sv] 5,5 A	-
[sv] 6 V	[sv] 7,5 A	[sv] -	[sv] 4,0 A
[sv] 5 V	[sv] 7,7 A	[sv] -	[sv] 4,9 A

^aStrömuttag tills spänning ut fallit med 10 %.

Table 6. [sv] Kontinuerligt strömuttag (80 %)

[sv] Kontinuerligt strömuttag ^a	[sv] 48 V	[sv] 24 V	[sv] 12 V
[sv] 24 V	[sv] 1,8 A	-	-
[sv] 12 V	[sv] 3,0 A	[sv] 4,4 A	-
[sv] 6 V	[sv] 6,0 A	-	[sv] 3,2 A
[sv] 5 V	[sv] 6,2 A	-	[sv] 3,9 A

^a80 % av Max strömuttag tills spänning ut fallit med 10 %.

Table 7. Printed circuit boards and Internal power consumption

Circuit Boards	Internal power consumption	Other. info
Voltage converter 48 24V 12V WR	Data is missing.	

Load outputs

Table 8. Load outputs

Load outputs	
Number of load outputs	

Alarm and protection

Table 9. Alarm and protection

Alarm and protection	Yes	No
[sv] Elektroniskt strömbegränsning ^a	✓	

^aUtgång är elektroniskt strömbegränsad varför extra lastsäkring ej behövs.

Communication and Indications

Table 10. Communication and Indications

Communication and Indications	Yes	No	Other. info.
Communication		X	
Alarm feedback to power supply	✓		
Indicators/LEDs	✓		

Enclosure and Mechanics

Table 11. Enclosure and Mechanics

Enclosure and Mechanics	
Enclosure	Does not have enclosure

Assembly, installation and eligibility requirements

Table 12. Fitting

Fitting	[sv] Ja	[sv] Nej
In product (optionally fitted in compatible product).	✓	

Table 13. Installation

Installation	Yes	No
Installed in product.	✓	

Dimensions, weight and packaging information

Table 14. Dimensions

Dimensions, (WxHxD).	Dimensions with packaging ^a .
30 x 40 x 89mm	100 x 210 x 155 mm

^aDimensions (WxHxD) of product and packaging may differ, this is because the product may be oriented differently in the package.

Table 15. Weight

Net weight	Weight with packaging
0.2 kg	0.4 kg

Table 16. Packaging

Packaging	
Packaging	Cardboard and impact protection in cardboard.
Quantity in pack	1 pc.
Packaging Type (GS1 T0137)	BX box.

Packaging	
Conditions EUR pallet	EUR pallets may not be stacked during transport or storage. Stacking may result in damage to product and packaging
Transport environment	The product must be protected from condensation and direct precipitation during transportation.
Transport temperature (without battery)	-30 °C to +70 °C
Storage environment	Dry indoor environment, protected from condensation. Relative humidity: max 95%, non-condensing
Storage temperature without batteries	-20 °C to +60 °C

The accessories fits in

Table 17. Number of cards that fit in the power supply.

Product series	Enclosure size	Number of cards that can fit ^a
ECO	M, L	2,4
ECO, NEO, NOVA	FLX S	2
EN54, NEO, NOVA	FLX M	3
NEO, NOVA	FLX L	3
19 rack module holders	4U	8

^aThe number of cards/accessories that can fit is the total number that can fit in the housing. Electronic and mechanical limitations may exist.

Contact

Table 18. Contact

Department	
Switchboard	031-340 02 30
Support and technical issues	support@milleteknik.se
Sales	sales@milleteknik.se
WWW	www.milleteknik.se
Address	Ögärdesvägen 8B, 433 30 Partille

About this information

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

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[SV] COMPLIANCE OCH REGELEFTERLEVNAD

Delivery time, warranty and terms

Table 19. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period ^a .	<i>[sv] Produkten har två (2) års garanti mot tillverkningsfel.</i>
Special warranty conditions	See also general terms and conditions.
General Terms and Conditions	ALEM09 with exceptions, see: www.milleteknik.se/conditions/
Support	Telephone support and email support during the warranty period are free of charge. For spare parts that are not covered by warranty, there is a charge
Delivery and stock	
Delivery time ^b .	5 working days. Or as per agreement. Delivery from factory, transportation time is added.

^aIf the device is purchased through a wholesaler or other supplier, other warranty conditions may apply

^bIn the case of larger orders, delivery time increases, acc. to agreement.

Operation and maintenance

Table 20. Operation

Operation	Data	Other. info
Environment	Indoor environmental class 1.	
Operating temperature (recommended)	+15°C to +25°C	
Operating temperature (permissible) ^a .	+5°C to +40°C	Class 1 according to EN 50131-6/ EN 60839-11

^aSpecifies the permissible ambient temperature range in which the product can operate without damage. See also table on battery life.

Table 21. Maintenance

Yes	No	Interval	Other. info
	✓		Maintenance-free.

Certifications and approvals

Table 22. Approved according to

Complies with	Directives
C.E.	CE marking according to (EC) 765/2008
EMC	EMC Directive 2014/30EU
Electric (LVD)	Low Voltage Directive: 2014/35/EU

Environmental data

Table 23. Environmental data

Environmental data	J/N	Informa ie	Other. info.
Building Product Declaration (BPD)	✓	Yes, see iBvd at www.milleteknik.se .	-
REACH Information Obligation (EC) No 1907/2006	✓	Yes, see the DoC at www.milleteknik.se The product complies with REACH Regulation (EC) No 1907/2006.	If empty, the product is not covered.

Environmental data	J/N	Informa ie	Other. info.
SVHC substances, CAS/EC	✓	Yes, lead, 7439-92-1/231-100-4	For text, see iBvd at www.milleteknik.se . If blank, substance is missing.
Subject to the RoHS Directive, (EU) 2015/863)	✓	Yes, see the DoC at www.milleteknik.se	
WEEE 2012/19/EU	✓	The product contains electrical components or wiring and is covered by the WEEE Directive (2012/19/EU).	If empty, the product is not covered. End-of-life products must be returned to a recycling centre
Battery Regulation (EU) 2023/1542	X		
SCIP No 2008/98/EC	✓	Yes, registered under the EU Waste Directive where applicable, (2008/98/EC).	If empty, no SCIP number is needed.
Conflict minerals (EU) 2017/821	X/ X/ X/ ✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	<i>[sv] Tenn i lödningar i kretskort som köps in via svensk leverantör.</i>
Contains nanomaterials: EC 1272/2008	X	The product does not contain nanomaterials.	
Ecodesign 2009/125/EC		Milleteknik's products are intended for professional use and are therefore not directly covered by the Ecodesign Regulation (EU 2019/1782). As some components may be covered, we nevertheless disclose relevant information ^a , where applicable, to provide our customers with confidence in their choice.	
Machine Directive 2006/42/EC		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). Will be replaced by Machinery Regulation (EU) 2023/1230, which will apply in 2027.	

^aStandby consumption and power.



Manufacturer and country of origin

Table 24. Manufacturer and country of origin

Manufacturer ^a .	Milleteknik AB
Customs State. Nos.	[sv] 85044095 ^b
Country of origin	Sweden

^aManufacturer is the trademark indicated on the product, regardless of what is stated in this product sheet.

^bVerifiera med tullombud/Tullverket vid export/import; alternativ klassificering 85044055 kan bli aktuell om produkten bedöms som ackumulatorladdare.

[SV] BILAGA

[sv] Behörighetskrav, installation

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[sv] Krav på behörighet varierar mellan länder. Tabellen sammanfattar nationella krav för fast installation respektive anslutning av utrustning med stickkontakt.

Table 25. Eligibility requirements by country. Applies only to the installation of this product in a fixed network connection

Permis- sion Re- quire- ments for In- stalla- tion	Fixed instal- lation (230 V)	Plug	Other. info
Sweden	✓	x	Fixed installation may be performed by technicians but shall be under the responsibility of a qualified installer. (Electrical Safety Act, SS 436 40 00) Plug may be connected without authorization.
Norway	✓	✓	Requirements for qualified electricians also for equipment with a plug socket in fixed installations. (NEK 400, DSB)
Finland	✓	x	Plug may be connected without authorization. (Tukes, SFS 6000)
Denmark	✓	x	Plug may be connected without authorization. (Safety Board)
Germany	✓	x	All fixed installations require a qualified electrician according to VDE 0100. Plug sockets may be connected without authorization, but only by person with basic electrical knowledge ("Elektrotechnisch unterwiesene Person")

[sv] Referenstabell: miljöklasser enligt EN 50130-5 (som hänvisas till i EN 50131-6)

Table 26. Reference table: environmental classes according to EN 50130-5 (referred to in EN 50131-6)

Class	Type	Temperature range
Environmental Class 1	Heated indoors (type office/residence).	+5°C to +40°C
Environmental Class 2	Generally indoors (type warehouses/stairwells, not temperature controlled).	-10°C to +40°C
Environmental class 3	Protected outdoors.	-25°C to +50°C
Environmental class 4	Generally outdoors.	-25°C to +60°C

**[sv] Referenstabell: tillverkares angivna livslängd och rekommenderat batteri-
byte**

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