

PRODUCT SHEET

Product image



Product Identification

Table 1. Product designation, Part Number and E-Number

Product designation	Item No.	E-number (SE) (sv)
4 Output module PTC CTRL	A-FU122404OP01LM01	52 13 795

Technical description

4 Output Module PTC CTRL is an optional card for Milleteknik's 12 V or 24 V battery backup system that enables control of four separate load outputs. The board has four configurable inputs that individually control the corresponding output drive voltage on the input. Each output is protected with PTC fuse and can supply up to 2 A. The module is used to control external functions or loads

Table 2. Quick Facts

Quick Facts	
Supply voltage (V)	27.3 V DC (24 V DC) or 13.6 V DC (12 V DC)
Voltage out (V)	27.3 V DC (24 V DC) or 13.6 V DC (12 V DC) ^a .
Current output (A), max load current output.	1.85 A per output ^b . 2 A per output
Accessories for	Outdoor Enclosures.

^aThe device is not equipped with any DC/DC converter. The output voltage therefore corresponds to the input

^bHolding current 2.7 A

Areas of application

Table 3. Areas of application

Areas of application	Yes	No
To expand the number of load outputs	✓	

Electrical data

Table 4. Electrical data

Electrical data	
Supply voltage	27.3 V DC (24 V DC) or 13.6 V DC (12 V DC)
Current (A) ^a .	1.85 A per output ^b . 2 A per output
Input control	Input drive voltage, (12 V)
Max current, full board	8 A, (16A maximum short-term)10A

^aPower outlet/load is specified as max, normal current output should be 80% of max.

^bHolding current 2.7 A

Table 5. Printed circuit boards and Internal power consumption

Circuit Boards	Internal power consumption	Other. info
4 Output module PTC CTRL	17 mA	

Load outputs

Table 6. Load outputs

Load outputs	
Number of load outputs	! 4 ^a .

^aLoad outputs share on the total maximum load. The value does not apply per output

Table 7. Total maximum load and recommended load.

Model	Recommended total load (80%) ^a .
8A	8A

^aTypically, 70-80% of the maximum load is recommended in continuous operation, depending on the thermal margins of the product.

Alarm and protection

Table 8. Alarms

Alarms	Yes	No
Triggered load fuse	✓	

Table 9. Alarm and protection

Alarm and protection	Yes	No
Overload Protection/Surge Protection	✓	

Communication and Indications

Table 10. Communication and Indications

Communication and Indications	Yes	No	Other. info.
Communication		X	
Indicators/LEDs			

Enclosure and Mechanics

Table 11. Enclosure and Mechanics

Enclosure and Mechanics	
Type	Printed circuit board, product does not have enclosure

Assembly, installation and eligibility requirements

Table 12. Fitting

Fitting	Yes	No
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	
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.
Storage environment	Dry indoor environment, protected from condensation. Relative humidity: max 95%, non-condensing

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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COMPLIANCE AND REGULATORY COMPLIANCE

Delivery time, warranty and terms

Table 19. Delivery time, warranty and terms

Delivery time, warranty and terms	
Warranty period ^a .	The product has a two (2) year warranty against manufacturing defects.
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 .	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		
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	✓		If empty, the product is not covered.

Environmental data	J/N	Informa ie	Other. info.
SVHC substances, CAS/EC	✓		For text, see iBvd at www.milleteknik.se . If blank, substance is missing.
Subject to the RoHS Directive, (EU) 2015/863)	✓		
WEEE 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			
SCIP No 2008/98/EC	✓		If empty, no SCIP number is needed.
Conflict minerals (EU) 2017/821	X/X/X/X/ ✓	No=Gold, Tungsten, Tantalum, Cobalt. Yes=Tin	Tin in solders in printed circuit boards purchased through a Swedish supplier.
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.	
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.			

^aStandby consumption and power.



Manufacturer and country of origin

Table 24. Manufacturer and country of origin

Manufacturer ^a .	
Customs State. Nos.	85044095 ^b .
Country of origin	

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

^bVerify with the Customs Ombud/Customs Service for export/import; alternative classification 85044055 may become applicable if the product is assessed as a battery charger.

APPENDIX

Eligibility requirements, installation

Eligibility requirements vary between countries. The table summarizes national requirements for fixed installation and connection of equipment with a plug socket, respectively.

[sv] Tillval på produktens sekundärsida, exempelvis 12 V, 24 V eller 48 V DC, ansluts enligt respektive anvisning. Arbete på produktens nätanslutning ska utföras enligt nationella krav på behörighet.

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)
Germa- ny	✓	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")

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

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

Class	Type	Tempera- ture range
Environmental Class 1	Heated indoors (type of- fice/residence).	+5°C to +40°C
Environmental Class 2	Generally indoors (type warehouses/stairwells, not temperature control- led).	-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

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