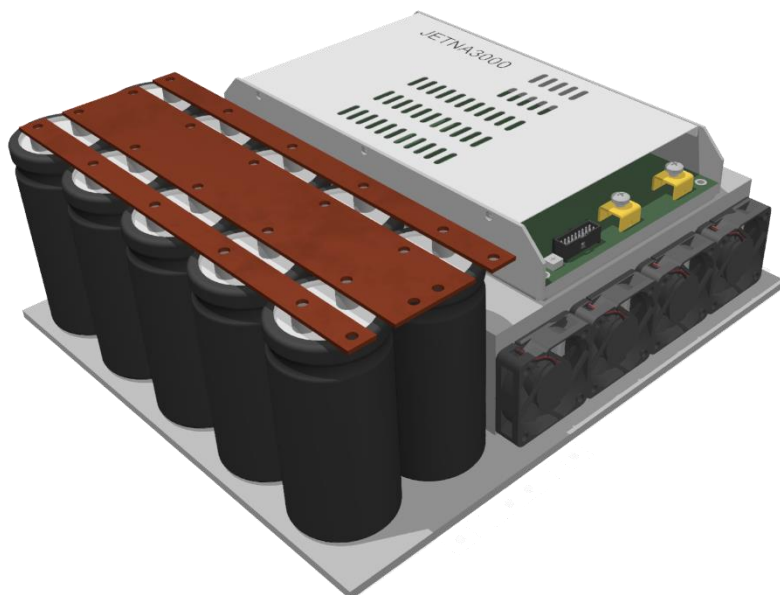


Features

- 3000 W nominal output power at 85° C case temp.
- Dimensions: 280 x 321 x 125 (mm)
- Complete power block solution
- 3-phase input of 320-480 VAC
- 28 VDC output
- Hold-up time of 30 ms (4 VDC dU)
- Unlimited output capacity charging
- DC OK signal, remote On/Off
- Power Factor Correction
- EMC standard of EN 55022 class A



Description

JETNAB3000-H is a complete-solution power block, with its own active cooling via implemented heatsink with fans. The block provides 28 VDC output with ability of hold-up time of 30 ms. Power system also features wide input range of 3-phase 320-480 VAC. Block is based on the customized low-profile unit **JETNA3000**. Part of the block is a capacitor bank, allowing mentioned hold-up time. Power block provides a system of over-current, over-voltage, short-circuit and thermal protections.

Models specification

3000 W					
Model	Input voltage range (3 ph.)	Power nom.	Output voltage nom.	Output current nom.	Efficiency typ.
JETNA B3000 - 380WS28 - H	320-480 VAC	3000 W	28 V	107.00 A	93 %

General specifications		
Temperature ranges	block operating ambient temp.	-50° C to +55° C
	storage temp.	-60° C to +85° C
Over-temperature protection	unit case temp.	85° C typ. with auto-reset
Cooling method	implemented	active via integrated fans
Humidity (non-condensing)		5-95 % rel. H
Insulation	input/case	1500 VAC
	input/output, input/REM	3000 VAC
	output/case, output/REM, REM/case	500 VAC
Isolating resistance @ 500 VDC		>20 MOhm
Thermal shock, mechanical shock & vibration		MIL-STD-810F
Safety standards		IEC/EN 60950-1
Typical MTBF (Tcase = 50° C; Pout = 0.7·Pout,max)	MTBF of the PSU	30 000 hrs
Weight (max)		TBD

Input specifications		
Input voltage range	3 phase input	320-480 VAC
Input frequency		47-65 Hz
Power factor		>0,96
Harmonics content of input current		EN61000-3-2, class D
EMC standard compliance		MIL-STD-461F, EN 55022 - class A

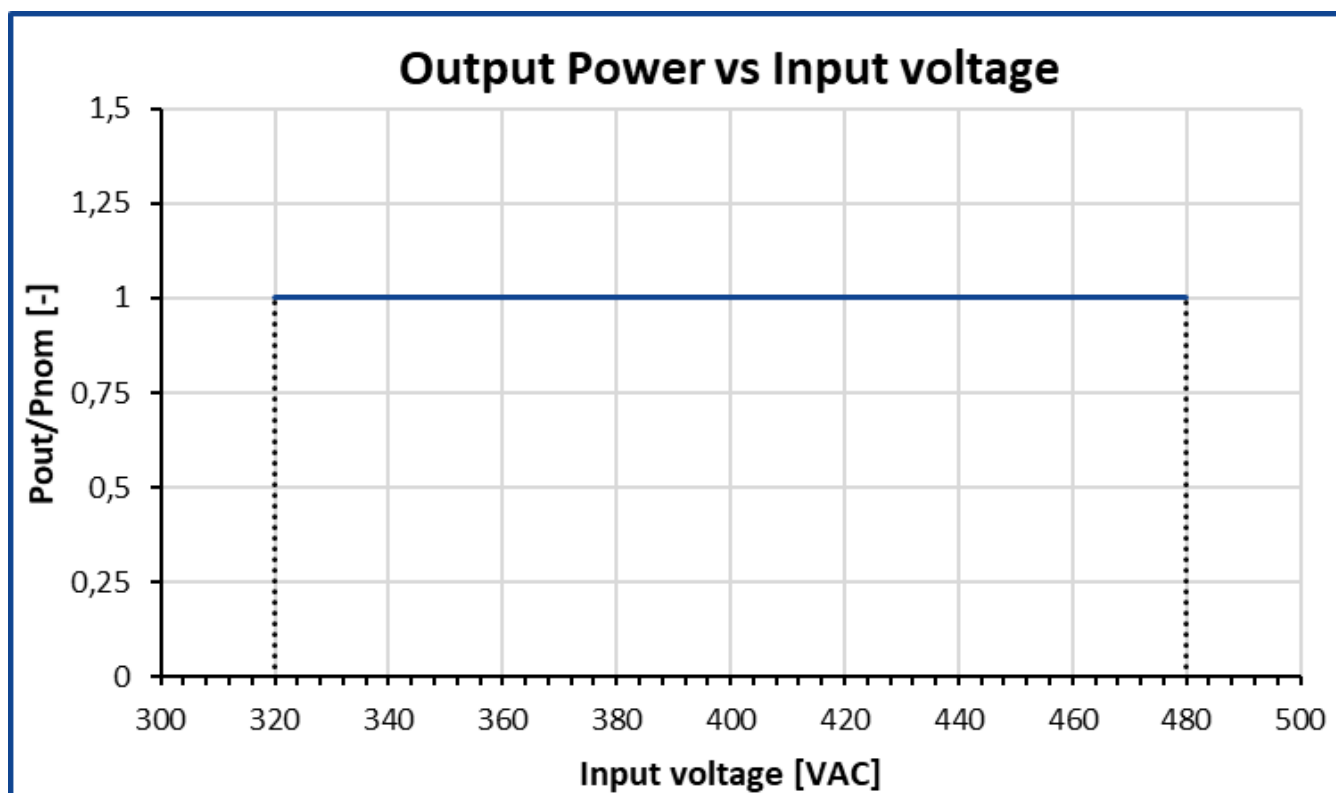
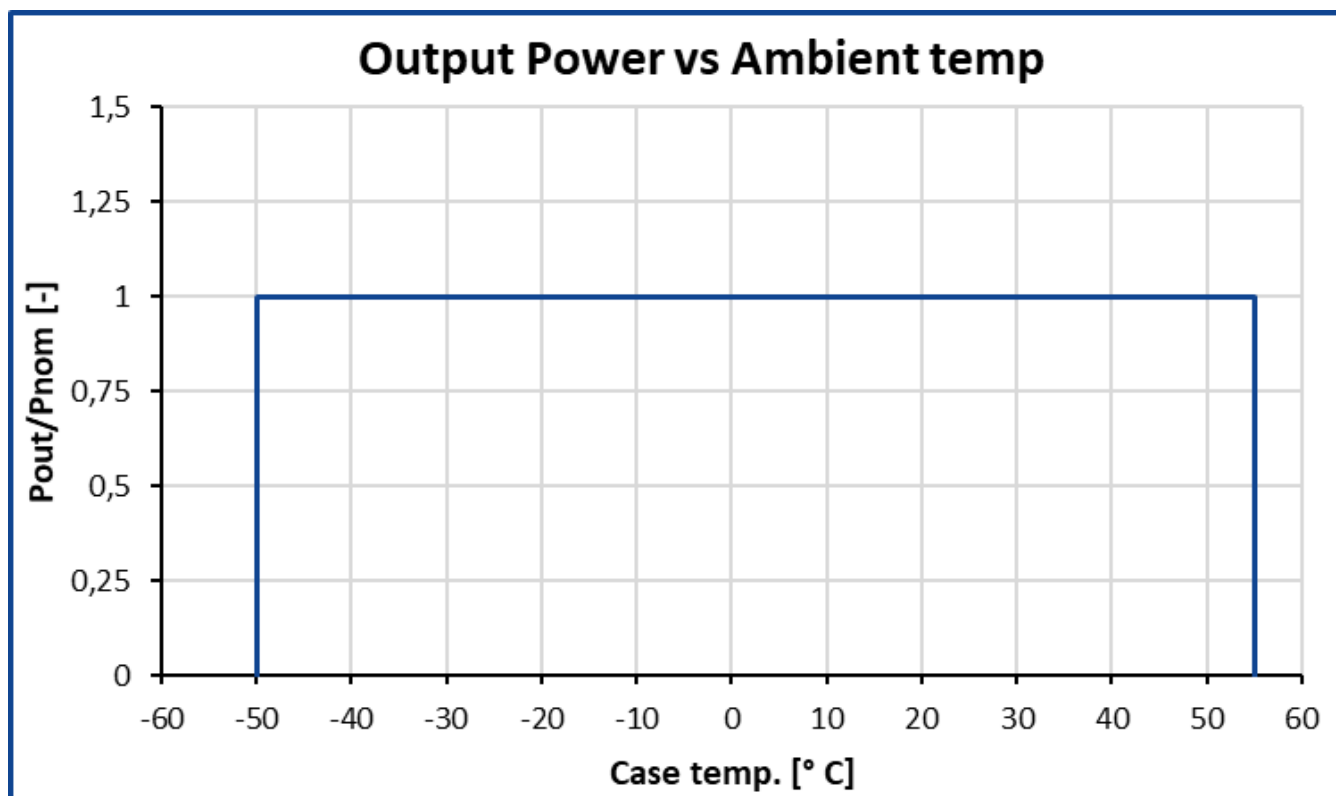
Output specifications		
Output voltage regulation	input variance Uin,min to Uin,max	±0.5 %
	load variance 10 % to 100 %	±2 %
Output max. power		3000 W at 55° C ambient temperature
Ripple and noise (peak-to-peak)	20 MHz bandwidth	<2 %
Output protection	over-load, short-circuit	<130 % of Iout,nom
	over-voltage	<130 % Uout
Capacitive load (max)		unlimited
Minimum load		Not required
Remote On/Off	method	Apply 3-5 VDC to REM pins (<5 mA)
Hold-up time	dU = 4 VDC	> 30 ms

Turn-on delay of power supply at subzero temperatures can reach up to 5 s at -40°C, up to 20 s at -50°C.

Please contact the tech. team at aeps@aeps-group.cz for more information.

All specifications are valid for normal climatic conditions, nominal output voltage and current, unless otherwise stated.

Power derating curves



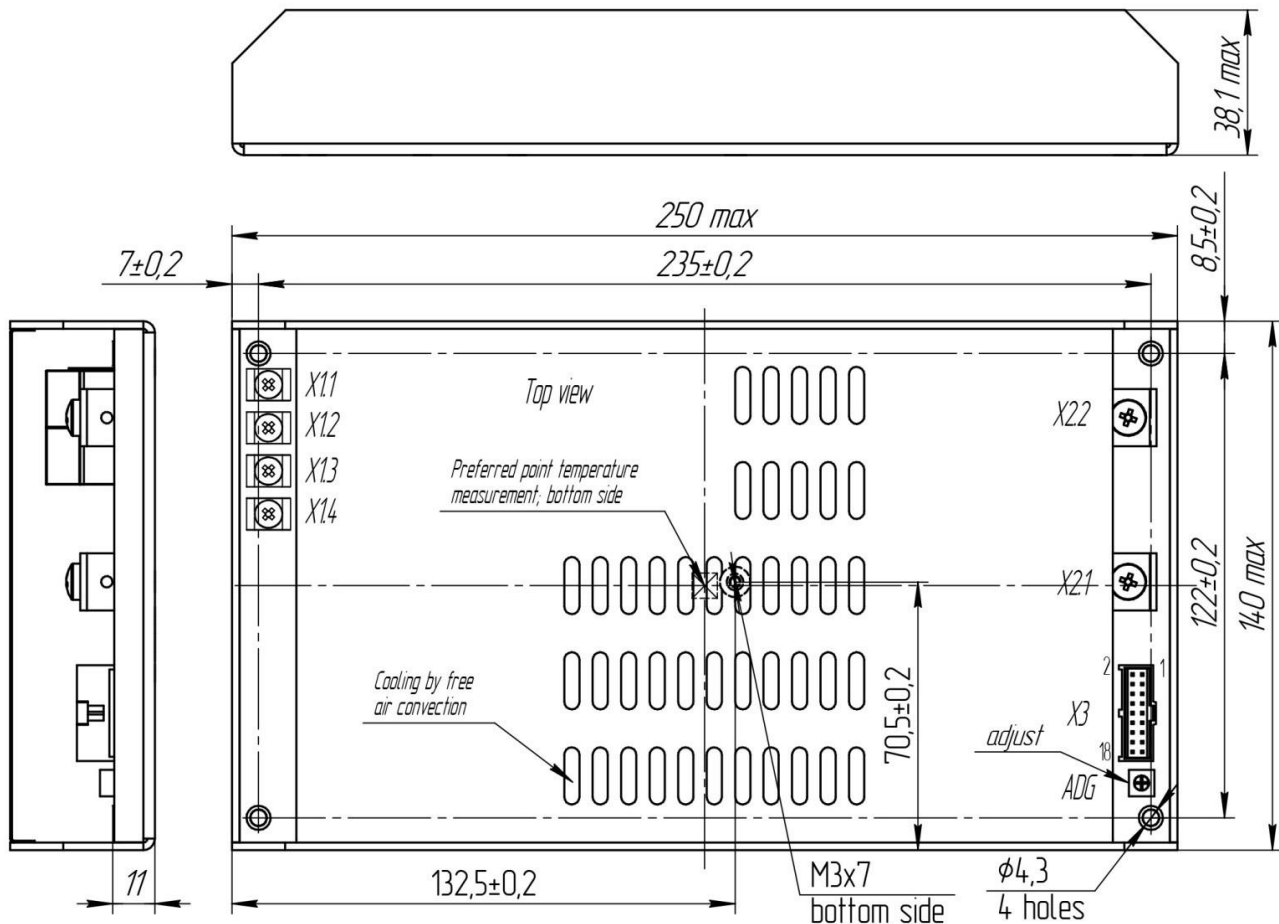
Unit Dimensions

Single Output Pin-out									
X1.1	X1.2	X1.3	X1.4	X2.1	X2.2	X3.1	X3.2	X3.17	X3.18
GND	A	B	B	-Vout	+Vout	+OGOOD	-OGOOD	-REM	+REM

X1	Screw size: 6-32x1/4 L
	Recommended Torque: 0,5 Nm
	Recommended: Use ring terminal, for example MOLEX 19323-0007.
	MOLEX 19324-0007.
X2	Screw size: M5
	Recommended torque: 2 Nm
	Recommended: Use ring terminal, for example Würth Electronics Inc. 5580510 or 5580516.
X3	MOLEX, C-GRID III
	MALE – SDA-90130-1118.
	FEMALE – SD-90142-0018 (18 pin) USE WITH "GRIMP TERMINAL" SD – 90119-0109 or other.
	USE "HAND CRIMP TOOL" for C-GRID III female Crimp Terminals for example 63825-8100 or other depending on the CRIMP TERMINALS.

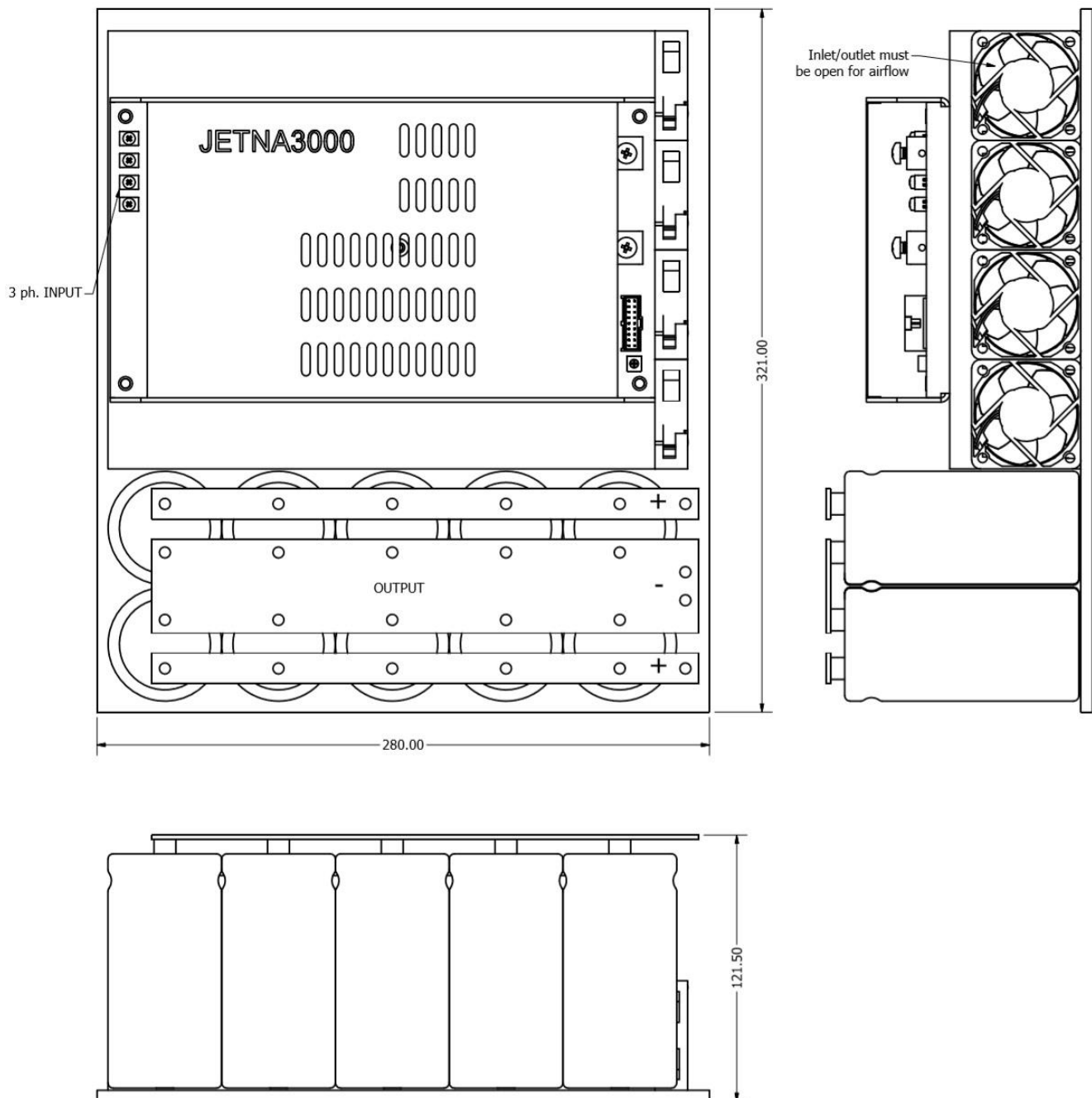
The unit is a part of Complete Power Block and shouldn't be used in any other way than a part of the block. Removing the unit without manufacturer's approval is forbidden.

Violation of these requirements may result wavering of the warranty.



Note: all dimensions are in mm

Block Dimensions



Additional information

The label with sign “remove before use” can be placed on the top surface of the module and must be removed before installation.

Please, note that all information in this material is for reference only. Product appearance may vary. Further detailed information (including: additional requirements, manuals and circuit schemes) is found at <http://www.aeps-group.com> or provided via an email request at aeps@aeps-group.com.

According to company’s policy in view of constant improvements of the production design the manufacturer reserves the right to change the contents of specifications and promotional materials without prior notice! Make sure you are using the latest documentation downloadable at <http://www.aeps-group.com>.

Management system and R&D of Alexander Electric s.r.o. are ISO 9001 certified.

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During development phase this datasheet may be modified.