AC/DC power supplies

MAA Family

MAA1000-SG(SD), 1000 W

Features

Power.....1000 W
Input voltage.....~220(100...264) V
Output voltage.....=24, 28 V
Efficicency.....no less than 95%
Case operating temperature.....-40...+85°C; -50...+85°C
Dimentions.....211x177x41 mm
Warently.....2 years

Advantage

- Conductive cooling
- Output voltage adjustment
- Remote shutdown
- Parallel operation

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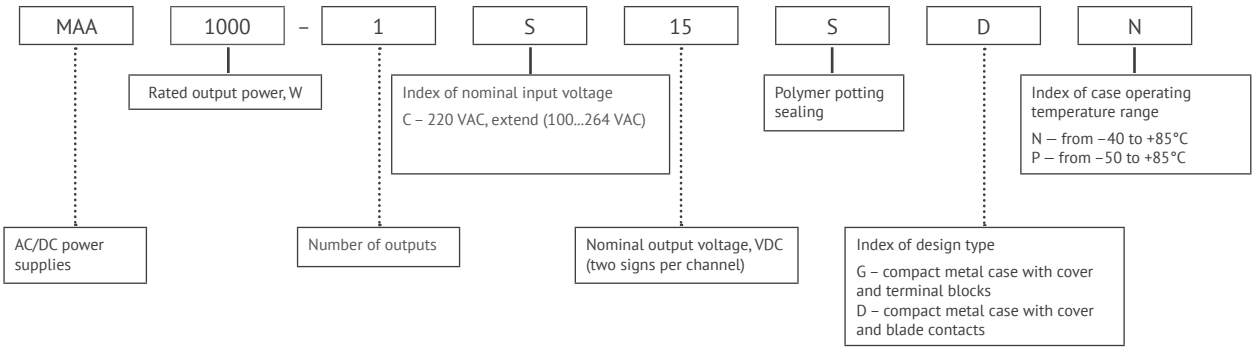
Ordering information



Output specifications*

Parameter	Value	
Nominal output voltage, VDC	24	28
Output voltage adjustment	±10 %	
Efficiency, %	no less than 95	
Rated output current, A	41,7	37,1
Ripple and noise (peak-to-peak)	<1%	
Line and load regulation	± 2%	
Start-up time, s	<0,5	
Parallel operation	redundancy, and boost of power	
Remote on/off	Off at 3.5...4.5 VAC (15...30 mA) output «REMOTE OFF»	
Maximum load capacity	100000 µF	

Input specifications*

Parameter	Value
Input voltage range, VAC**	~100...264 (=141...372)
Transient deviation range, VAC	~81...310
Transient time	<3 s.
Mains frequency range, Hz	47...440
Power factor corrector	+
Inrush current , A	<40
Power factor	0.98

* All specifications are valid for normal climatic conditions, Uin. nom., Iout. nom., unless otherwise noted.
** For input voltage C (wide mains), the maximum output power is reduced at input voltages of 100...176 V according to the graph of power reduction depending on the input voltage. The parameters are for reference and cannot be used for long-term operation, exceeding the maximum output current, or for operation outside the operating temperature range.

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Protections

Type of protection	
Short-circuit protection*	auto recovery
Overcurrent protection	Pmax<1.8 Pnom
Overload protection level*	<125% Uout nom.
Overheat protection	triggers at case temperature > 85°C

Basic specifications**

Parameter		Value
Type of connection		screw terminals and blade contacts
Protection level		IP20
Case temperature, operating	«N»	–40...+85°C
	«P»	–50...+85°C
Case temperature, storage		–50...+70°C
Humidity		98% / 35°C
Isolation voltage	in /case	~1500 VAC
	in /out	~1500 VAC
	out /case, out/out	~500 VAC
Isolation resistance @ 500 VDC		⩾ 20 MOhm min
Cooling		conductive
EMC standards		EN55022 (CISPR22)
Typical MTBF		up to 75000***
Case material		metal
Dimensions, mm		211x117x41
Weight, kg		no more 1,9
Warranty		2 year

* * For input voltage C (wide mains), the maximum output power is reduced at an input voltage of 100...176 V according to the power reduction schedule depending on the input voltage.
temperatures range or when output voltage is over the range of adjustment.
** All specifications are valid for normal climatic conditions, Uin. nom., Iout. nom., unless otherwise noted.
*** When Uout.=UIn.nom., Pin=0.5*Pmax, Tcase⩽0.5*Tcase.max.

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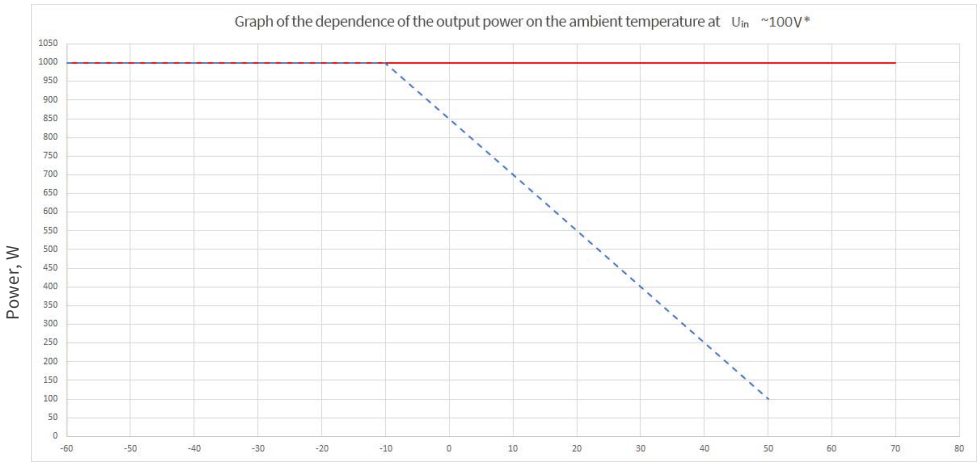
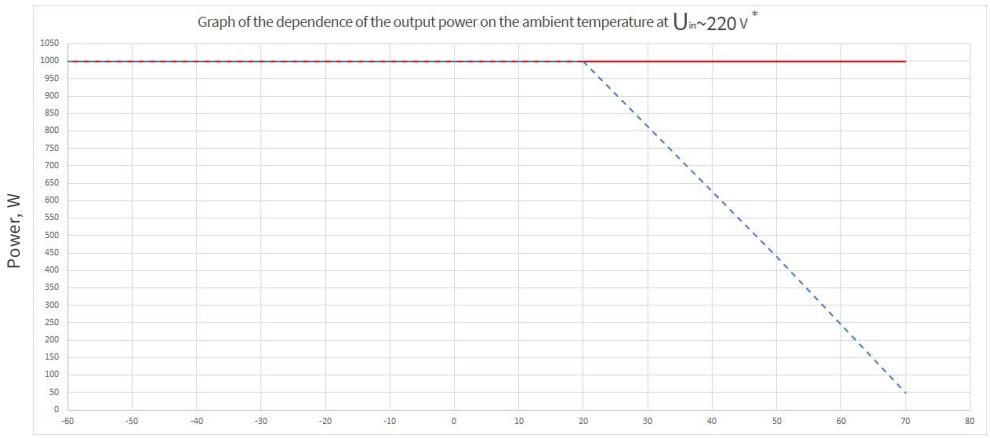
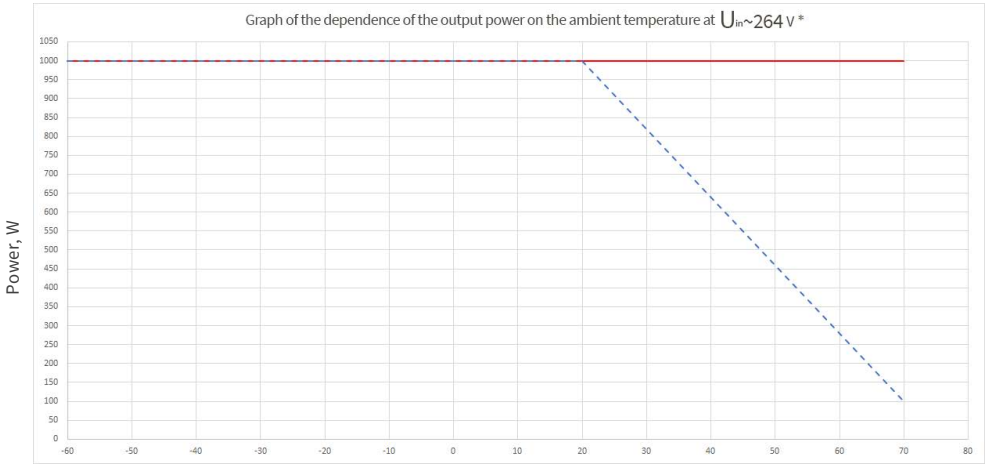
Graphs of power reduction depending on ambient temperature at input voltage

MAA1000







The falling sections of the dotted and dashed curves correspond to the maximum body temperature (+85 ° C). The output power of the module must not exceed the values limited by the corresponding curve at a given ambient temperature.

*These graphs show estimated values. To obtain more accurate values, it is recommended that tests be carried out in the operating system under specified conditions.

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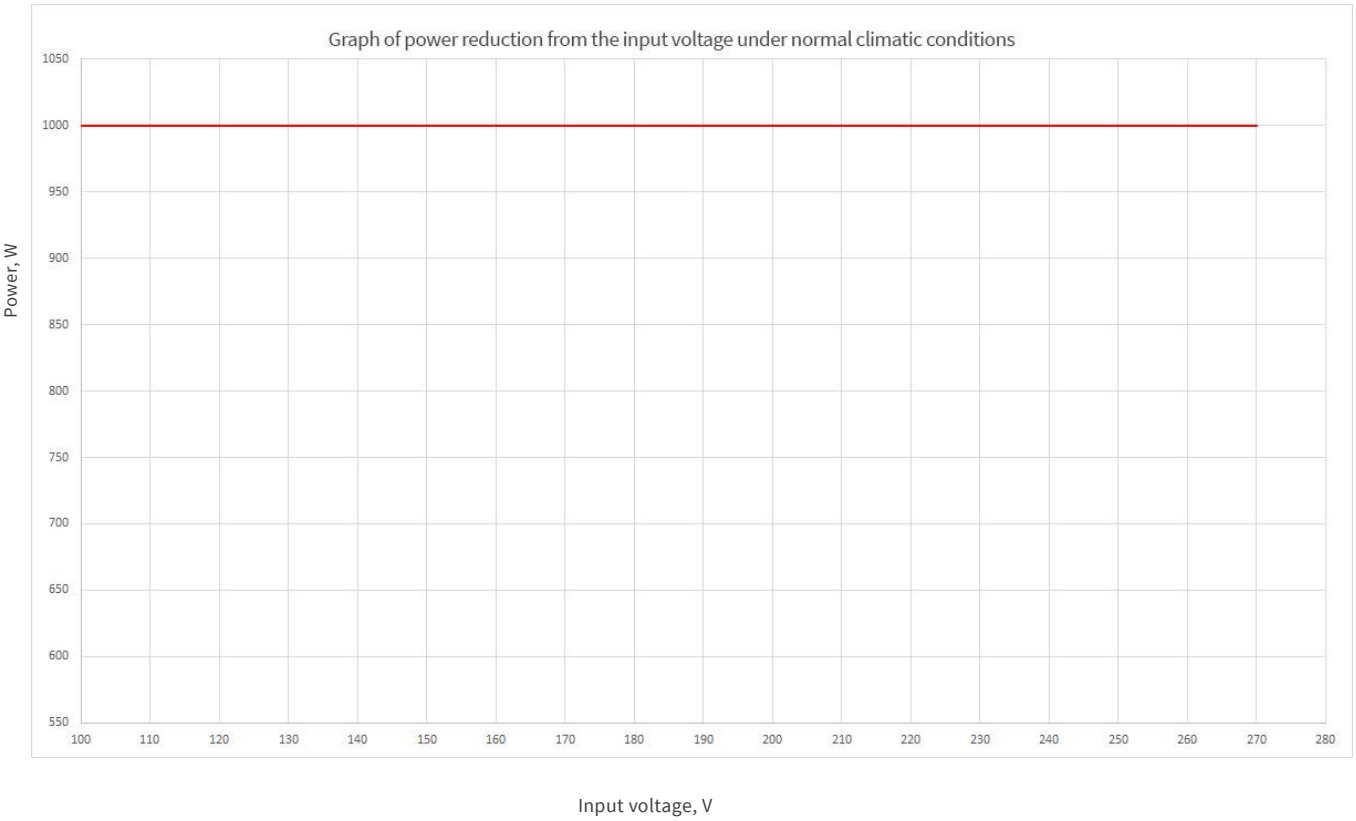
A graph of power reduction depending on the input voltage

MAA1000



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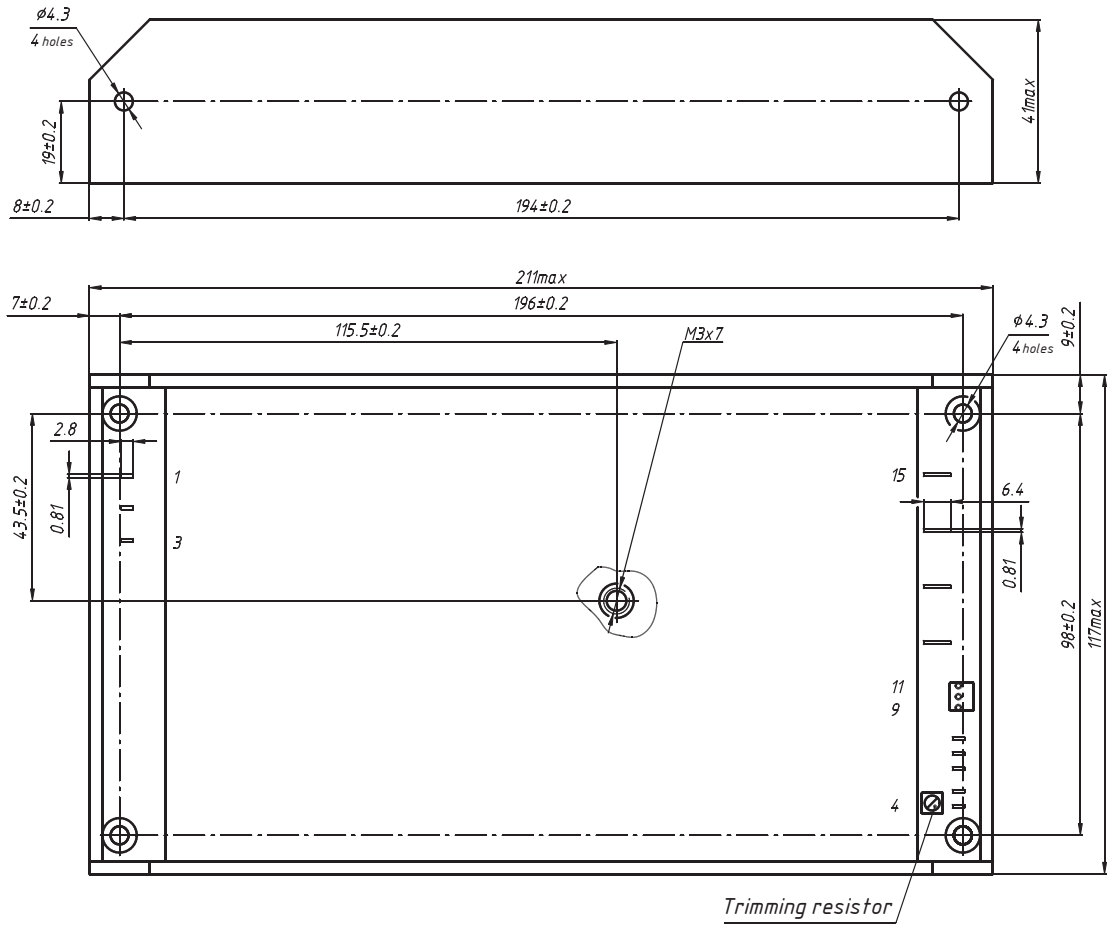
Dimensions

Single-channel design with blade contacts



PIN #	1	2	3	4	5	6	7
SINGLE-CHANNEL	L	N	⏚	-REMOTE OFF	+REMOTE OFF	+RS	-RS

PIN #	8	9	10	11	12	13	14	15
SINGLE-CHANNEL	PARAL	+U FAN	-U FAN	NOT USE	+ OUT 1	+ OUT 1	−OUT 1	−OUT 1

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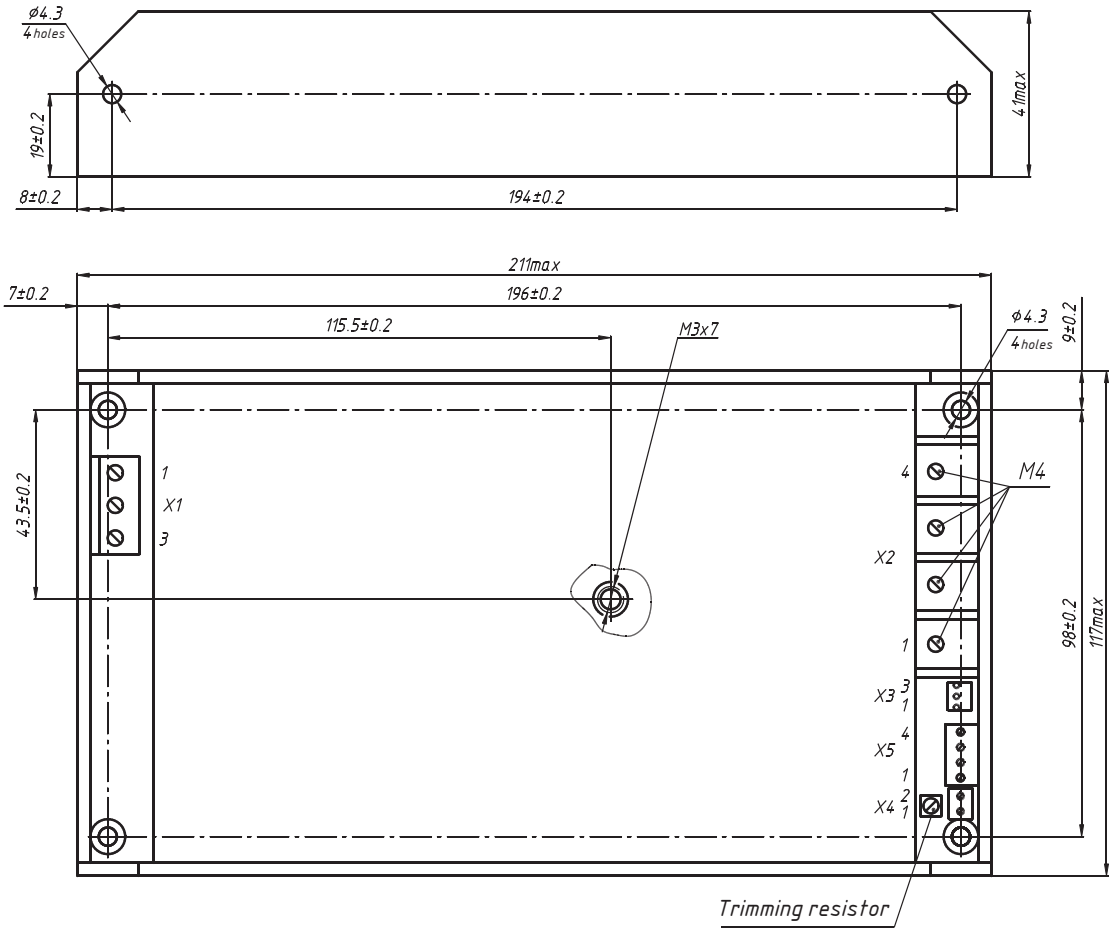
Dimensions

Single-channel design with terminal blocks



PIN #	X1.1	X1.2	X1.3	X2.1	X2.2	X2.3	X2.4	X3.1
SINGLE-CHANNEL	L	N	⏚	+ OUT 1	+ OUT 1	−OUT 1	−OUT 1	+U FAN

PIN #	X3.2	X3.3	X4.1	X4.2	X5.1	X5.2	X5.3	X5.4
SINGLE-CHANNEL	-U FAN	NOT USE	-REMOTE OFF	+REMOTE OFF	+RS	-RS	PARAL	NOT USE

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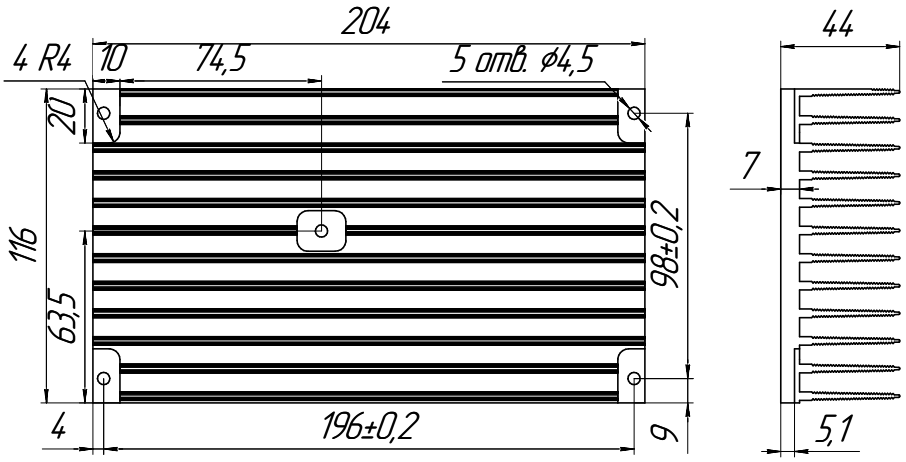
Radiator

BKYAU.752695.064 dimension drawing



This datasheet is valid for the following units: MAA1000-1C24-Sxx; MAA1000-1C28-Sxx.

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