AC/DC power supplies

MAA Family

MAA1200-SG(SD),1200 W

Features

Input voltage.....~220(187...242) V
~220(100...264) V
~115(81...138) V
Output voltage.....=24 V;=28 V;=48 V
Efficiency.....no more than 80%
Case operating temperature.....-40...+85°C; -50...+85°C
Demensions.....250x140x41 mm
Warently..... 2 years

Adventage

- Parallel and series connections
- Output voltage regulation
- Conductive cooling

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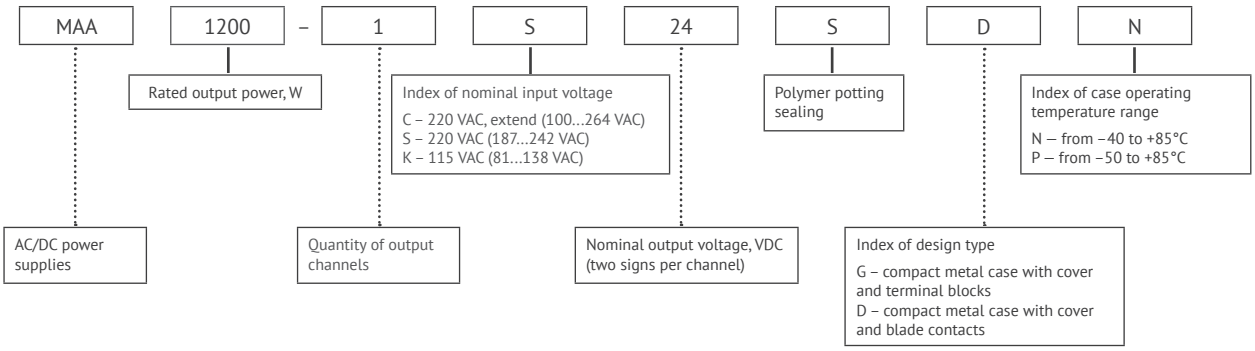
Ordering information



Output specifications*

Parameter	Value		
Nominal output voltage, VDC	24	28	48
Output voltage adjustment	±10 %		
Efficiency, %	no less than 80		
Rated output current, A	50	44,44	25
Ripple and noise (peak-to-peak)	no more than 2%		
Line and load regulation	<2%		
Start-up time, ms	<2000		
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	33000 µF (Uout from 24 to 28 VDC) 11000 µF (Uout. = 48 VDC		

Input specifications*

Parameter		Value
Input voltage range, VAC**	C	~100...264 (=141...372)
	S	~187...242 (=263...340)
	K	~81...138
Transient deviation range, VAC	C	~100...264
	S	~176...264
	K	~81...150
Transient time	S, K	1 s.
Mains frequency range, Hz	K	50
	C, S	47...440
Power factor corrector	C, S, K	+
Inrush current	C	22,5
	S	66,0
	K	79,2

* All specifications are valid for normal climatic conditions, Uin. nom., Iout. nom., unless otherwise noted.

** For input voltage Ts (wide area network), the maximum output power decreases at input voltage 100...176 V according to the graph of power decrease depending on input voltage. Parameters are for reference and cannot be used for long-term operation, exceeding the maximum output current, operating 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 Hrs***
Case material		metal
Dimensions, mm		250x140x41
Weight, kg		no more than 2.4
Warranty		2 year

* For output voltage C (wide mains) the maximum output power is taken at input voltage 100...176 V according to the graph of power reduction depending on the input voltage

** All specifications are valid for normal climatic conditions, Uin. nom., Iout. nom., unless otherwise noted.
*** When Uout.=Uout.nom., Pin=0.5*Pmax, Tcase≤0.5*Tcase.max.

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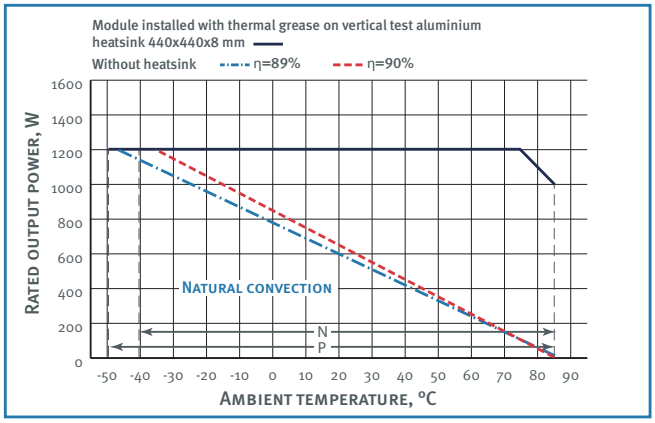
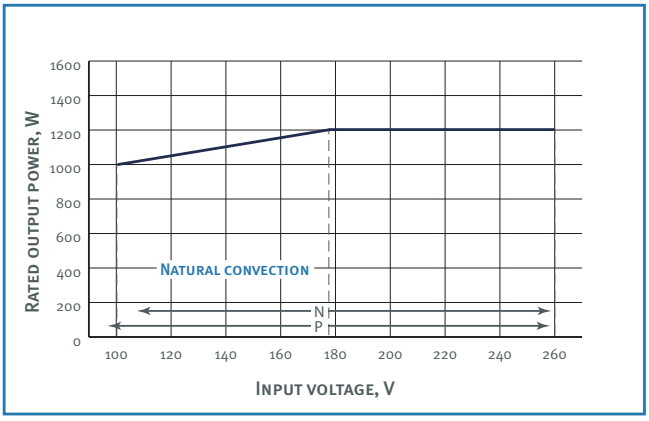
Derating

vs Temperature



vs Input Voltage



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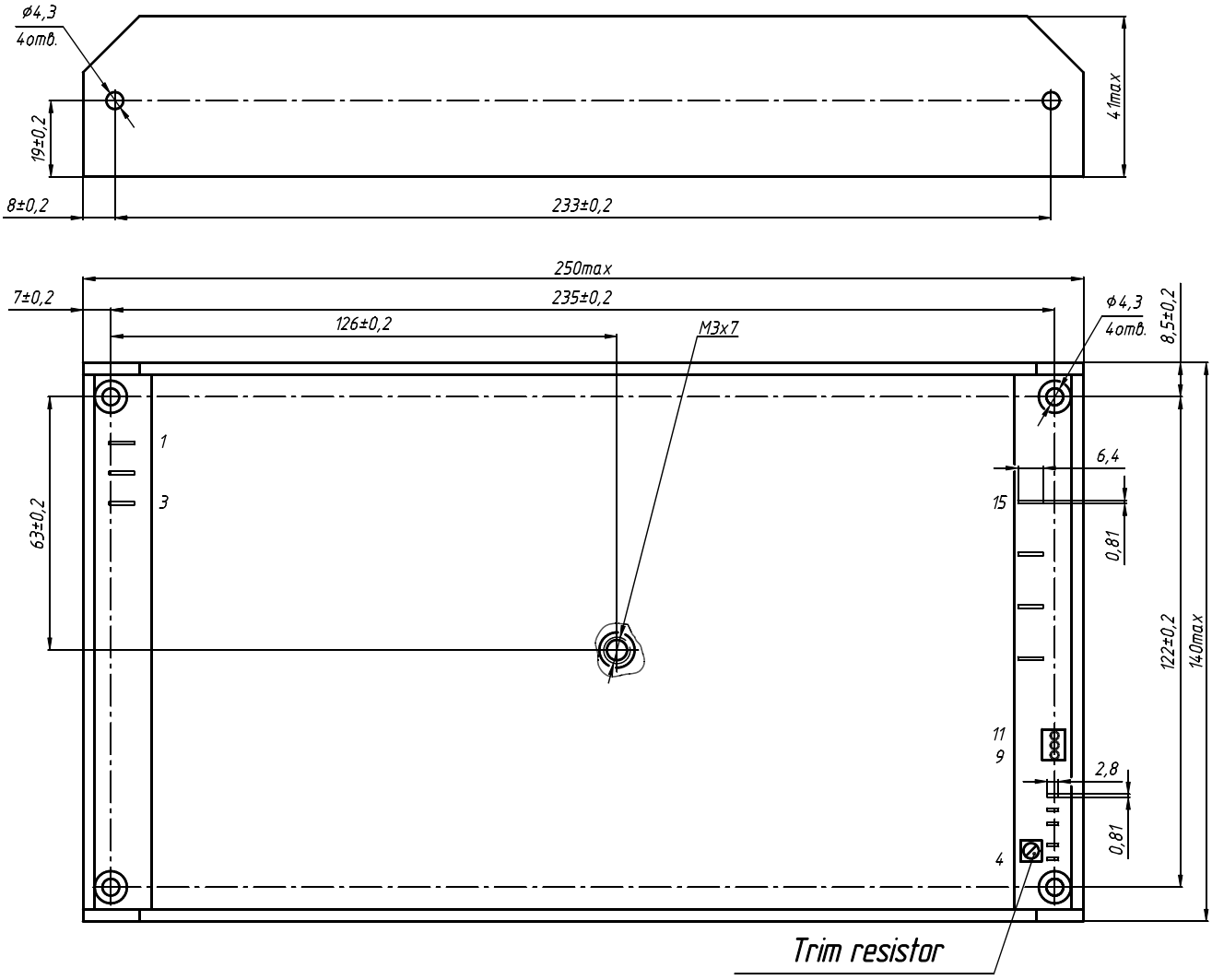
Dimensions

Single-channel design with blade contacts



Pin assignment

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	-	+Uout1	+Uout1	-Uout1	-Uout1

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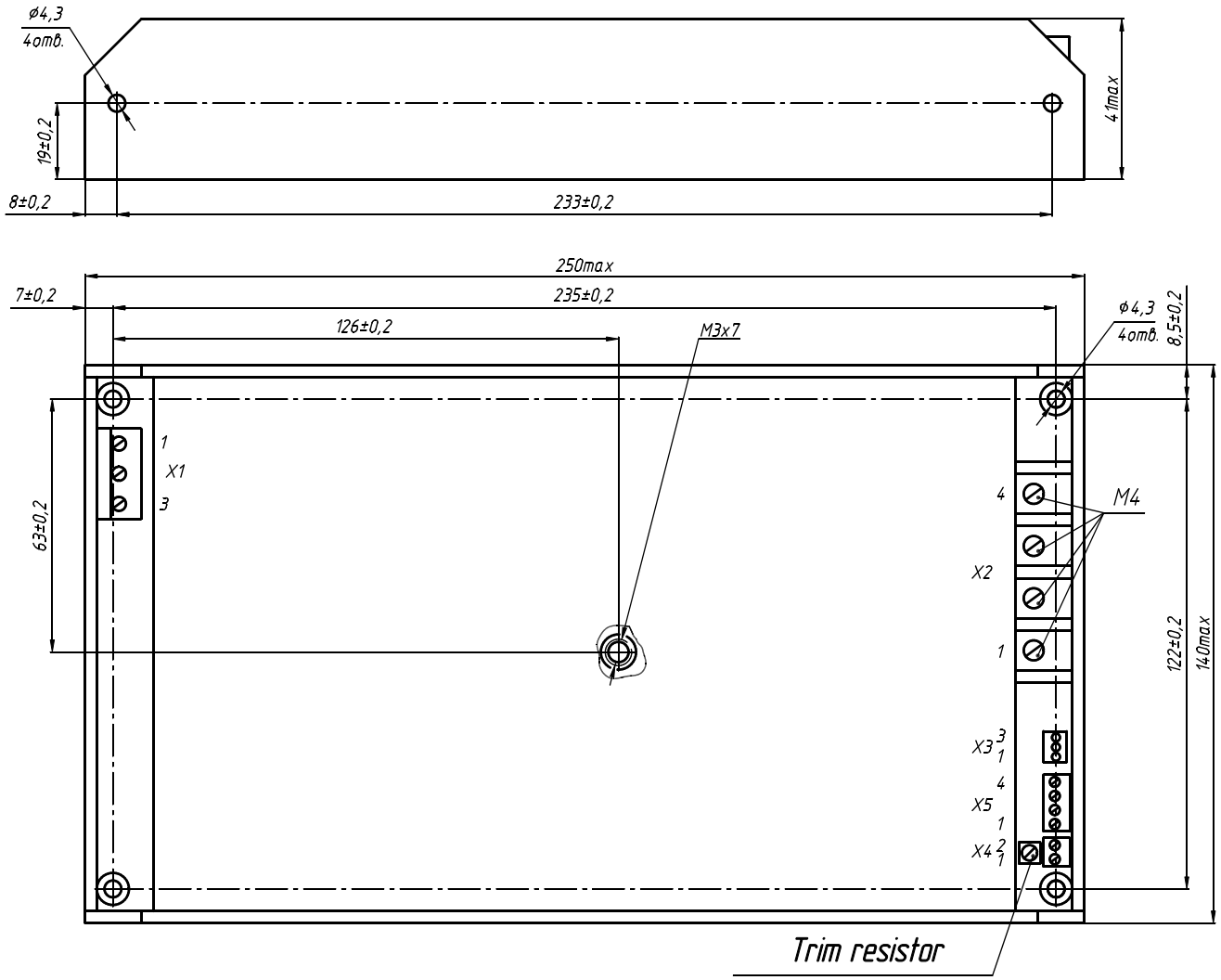
Dimensions

Single-channel design with terminal blocks



Pin assignment

PIN #	X1.1	X1.2	X1.3	X2.1	X2.2	X2.3	X2.4	X3.1
SINGLE-CHANNEL	L	N	⏚	+Uout1	+Uout1	–Uout1	–Uout1	+U FAN

PIN #	X3.2	X3.3	X4.1	X4.2	X5.1	X5.2	X5.3	X5.4
SINGLE-CHANNEL	–U FAN	-	-REMOTE OFF	+REMOTE OFF	+RS	–RS	PARAL	-

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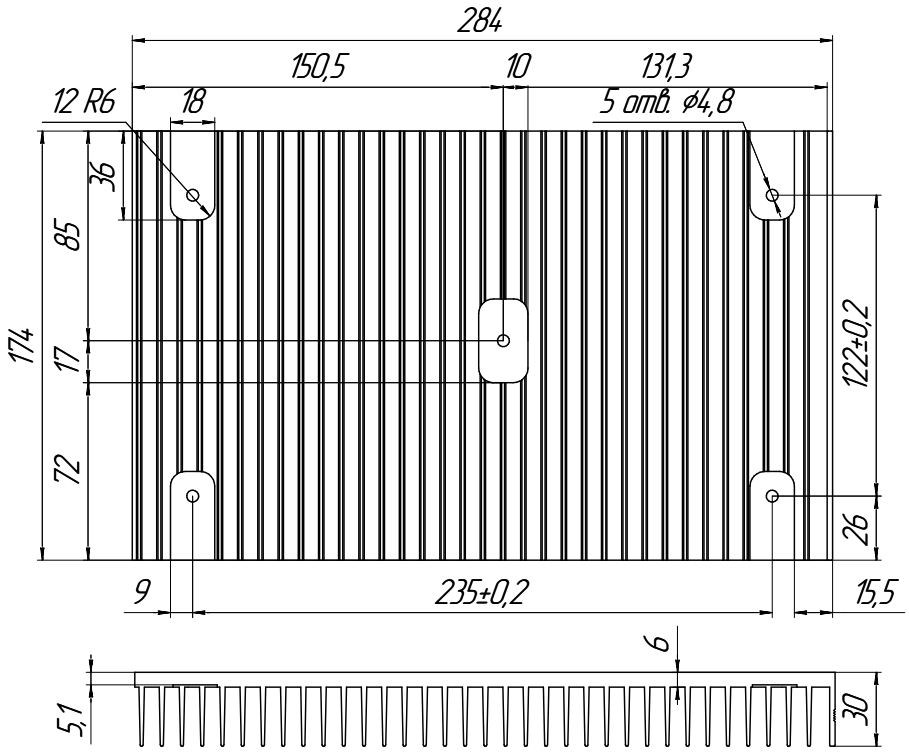
Radiator dimension drawing

Radiator BKYAU.752695.036



This datasheet is valid for the following units: MAA1200-1S24SXX, MAA1200-1S27SXX, MAA1200-1C48SXX, MAA1200-1C24SXX, MAA1200-1C28SXX, MAA1200-1C48SXX

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