

AC/DC power supplies

MAA Family MAA1200, 1200 W



Basic specifications

Power	1200 W
Input current	up to 80 A
Input voltage	~220 (187...264) VAC
Output voltage	=24 VDC, =28VDC, =60VDC
Efficiency.....	89-92%
Case operating temperature.....	-40...+85 °C; -50...+85 °C
Dimensions	250x140x41 mm
Warranty	2 years

Advantages

- ◀ Design to meet MIL-STD-810G and MIL-STD-461E
- ◀ Parallel and series operation
- ◀ Output voltage adjustment
- ◀ Conductive cooling

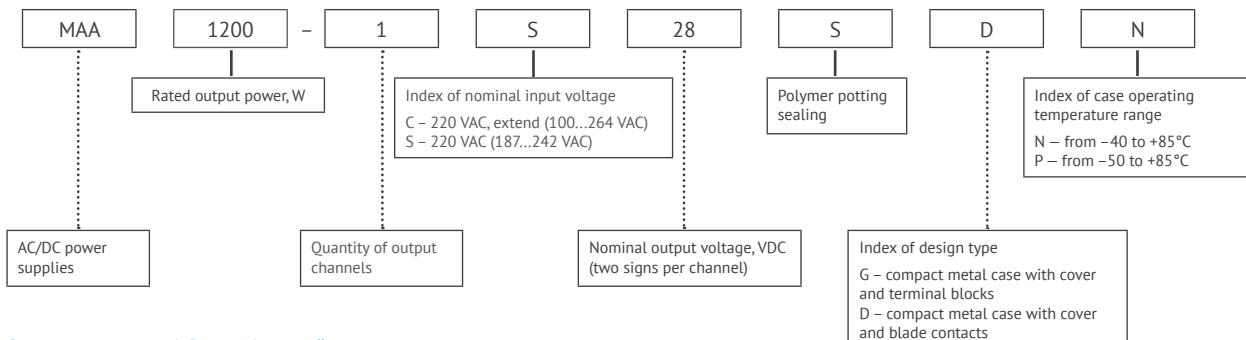


Description of MAA1200 on the manufacturer's website:
eng.kwsystems.ru/catalog/acdc/models/12

Order registration
+7 473 200 87 80, Global Operations Team

Technical support
Mikhail Timokhin, mtimohin@kwsystems.ru

Ordering information



Input specifications*

Parameter	Value			
Input voltage range, VAC**	C	~100...264 (=141...372)		
	S	~187...242 (=263...340)		
Transient deviation range, VAC	C	~100...264		
	S	~176...264		
Transient time	S	1 s.		
	C	-		
Mains frequency range, Hz	C, S	47...440		
Power factor corrector		+		

Output specifications*

Parameter	Value			
Nominal output voltage, VDC	24	28	48	60
Output voltage adjustment	10 %			
Efficiency, %	89	89	90	92
Rated output current, A	50	42.86	25	20
Ripple and noise (peak-to-peak)	<2%			
Line and load regulation	max 2%			
Start-up time, ms	<2000			
Parallel operation	redundancy, and boost of power			
Remote on/off	Off at 3.5...4.5 VDC (15...30 mA) output «REMOTE OFF»			
Maximum load capacity	33000 μ F (Uout=5 VDC)			

* All specifications are valid for normal climatic conditions (ambient temp. +15...+35°C; relative humidity 45...80%; air pressure 8.6*104...10.6*104 Pa), Uin. nom., Iout. nom., unless otherwise noted.

** Maximum output power for input voltage range C (wide range) at Uout 100...187 VDC is reducing according to power derating VS input voltage diagram.

Protections

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

Basic specifications**

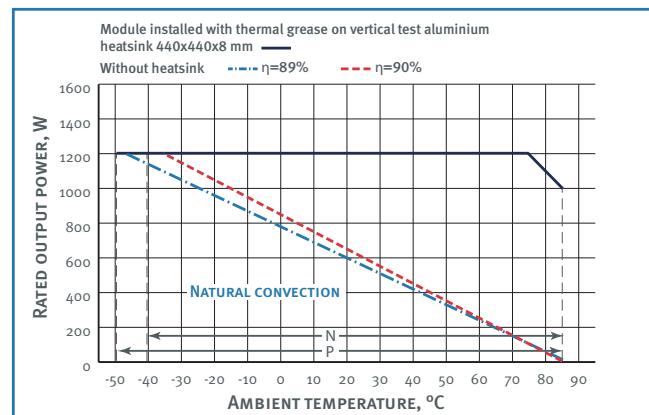
Parameter	Value	
Type of connection	screw terminals and blade contacts	
Protection level	IP20	
Case temperature, operating	«N»	-40...+85°C
	«P»	-50...+85°C
Case temperature, storage	-50...+70°C	
Humidity	98% / 35°C	
Isolation voltage	in /case	~1500 VAC
	in /out	~1500 VAC
	out /case, out/out	~500 VAC
Isolation resistance @ 500 VDC	≥ 20 MΩ min	
Cooling	conductive, forced air	
Environmental influence standards	design to meet MIL-STD-810G	
EMC standards	EN55022 (CISPR22); design to meet MIL-STD-461E	
Typical MTBF	3 000 000 Hrs	
Case material	metal	
Dimensions, mm	250x140x41	
Weight, kg	< 2.4	
Warranty	2 year	

* Parameters are stated for the information purposes and could not be used at long term work, exceeding maximum output current, operating outside of a working temperatures range or when output voltage is over the range of adjustment.

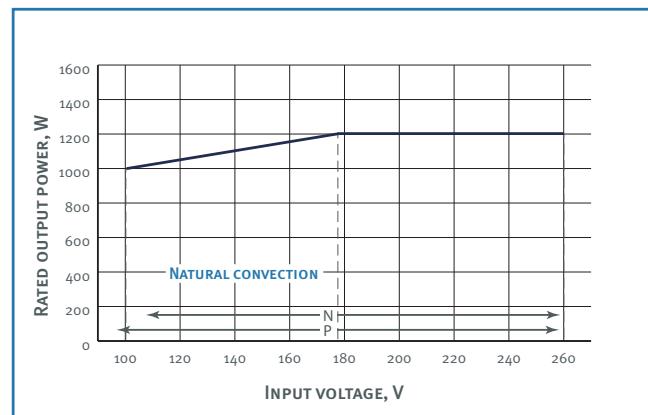
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Derating

vs Temperature

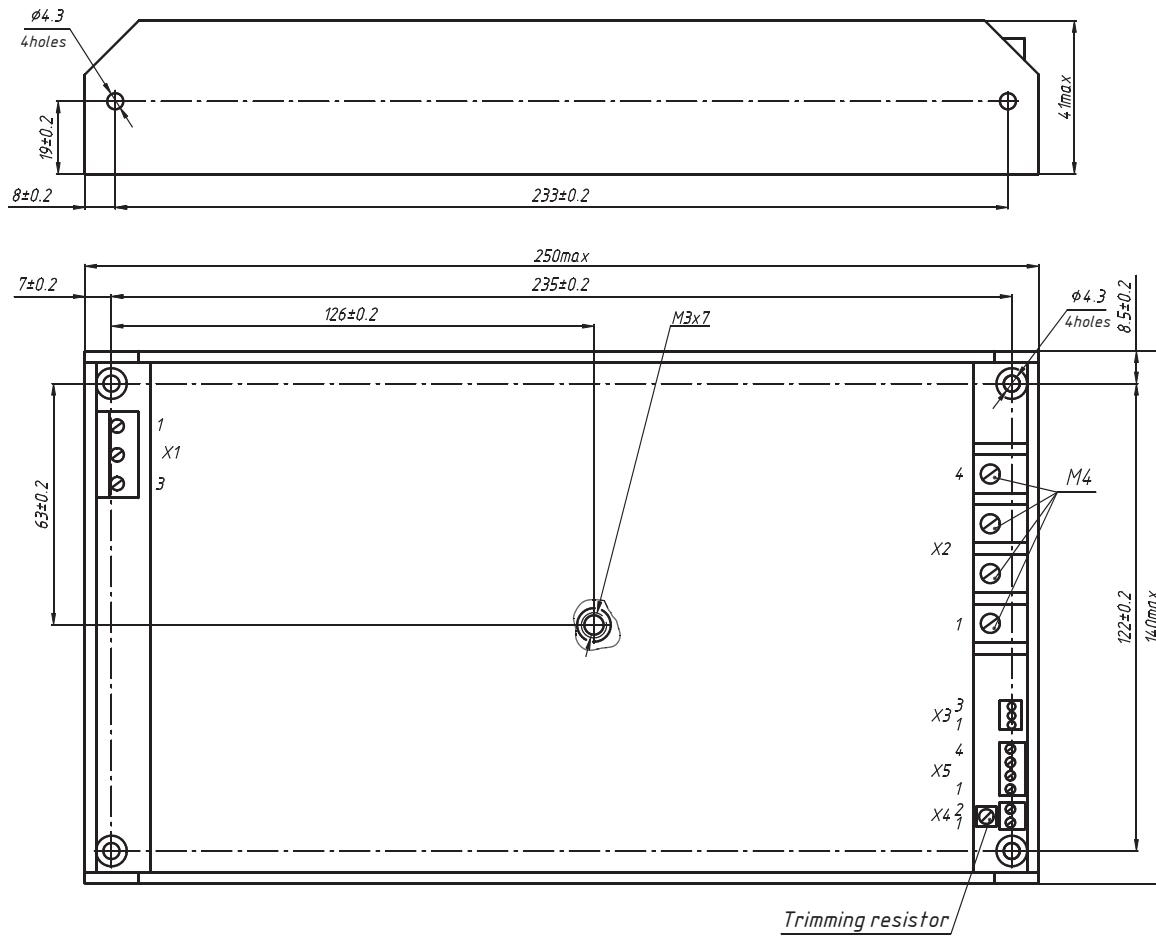


vs Input Voltage



Dimensions

Single-channel design with terminal blocks

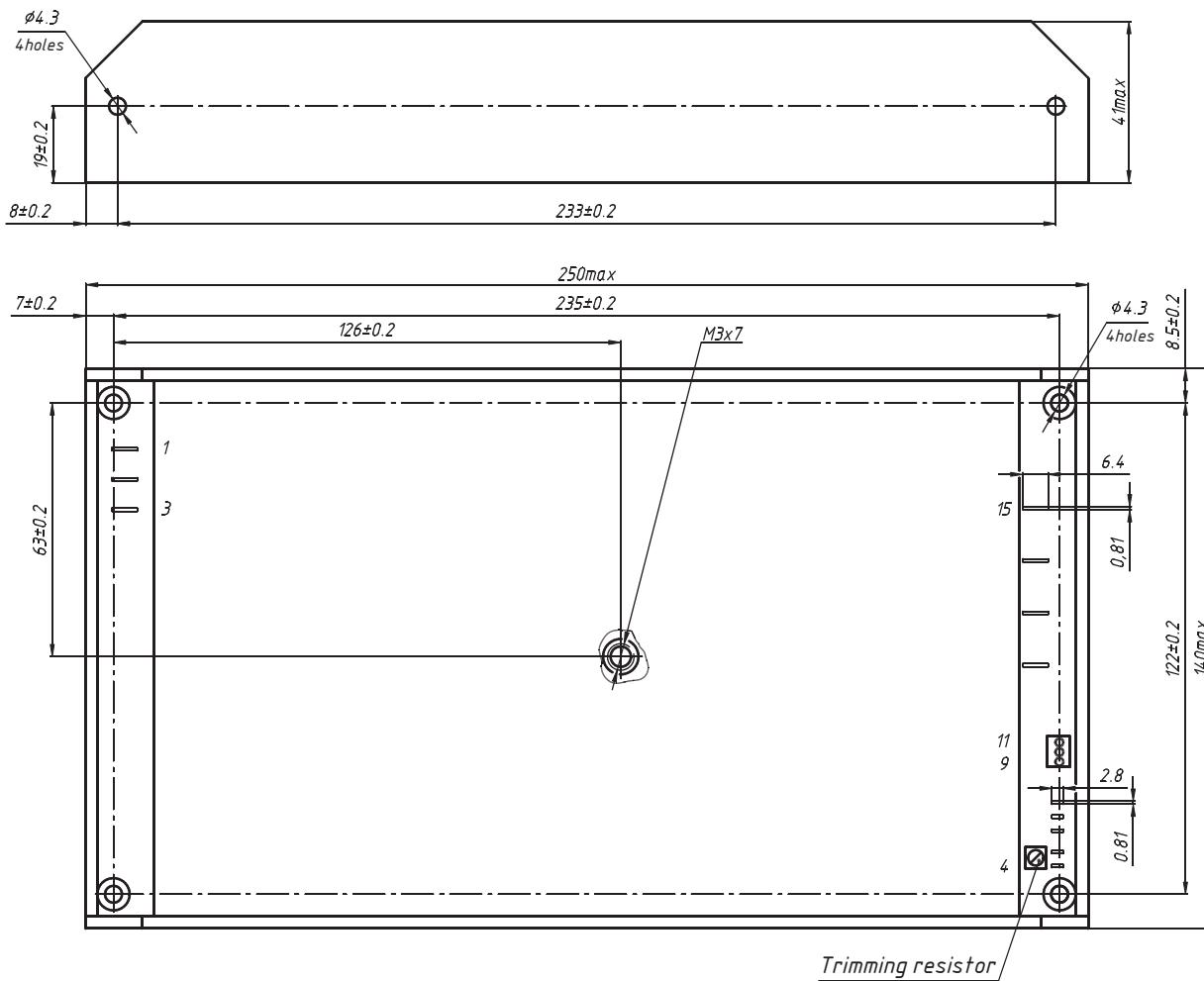


PIN #	X1.1	X1.2	X1.3	X2.1	X2.2	X2.3	X2.4	X3.1
SINGLE-CHANNEL	L	N	()	+ OUT 1	+ OUT 1	- OUT 1	- OUT 1	+U FAN

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

Dimensions

Single-channel design with blade contacts



PIN #	1	2	3	4	5	6	7
SINGLE-CHANNEL	L	N	(+) circle	-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



www.kwsystems.ru info@kwsystems.ru

KW Systems, LLC is the leading Russian developer and manufacturer of AC/DC converters and power supply systems for mission critical applications.

Druzinnikov str. 5B, Voronezh, 394026, Russia. +7 473 200-87-80

This datasheet is valid for the following units:

MAA1200-1C24CXX, MAA1200-1C28CXX, MAA1200-1C48CXX, MAA1200-1C60CXX, MAA1200-1S24CXX, MAA1200-1S28CXX, MAA1200-1S48CXX, MAA1200-1S60CXX.