

## AC/DC power supplies

### MAA Family MAA150, 150 W



#### Basic specifications

Power .....	150W
Output current .....	up to 30A
Input voltage .....	~220 (187...264) VAC
Output voltage .....	=5 VDC, =24 VDC, =28 VDC
Efficiency.....	82-89%
Case operating temperature.....	-40...+85 °C; -50...+85 °C
Dimensions .....	134x84x33 mm
Warranty .....	2 years

#### Advantages

- ◀ Design to meet MIL-STD-810G and MIL-STD-461E
- ◀ Remote OFF/ON
- ◀ Output voltage adjustment
- ◀ Conductive cooling

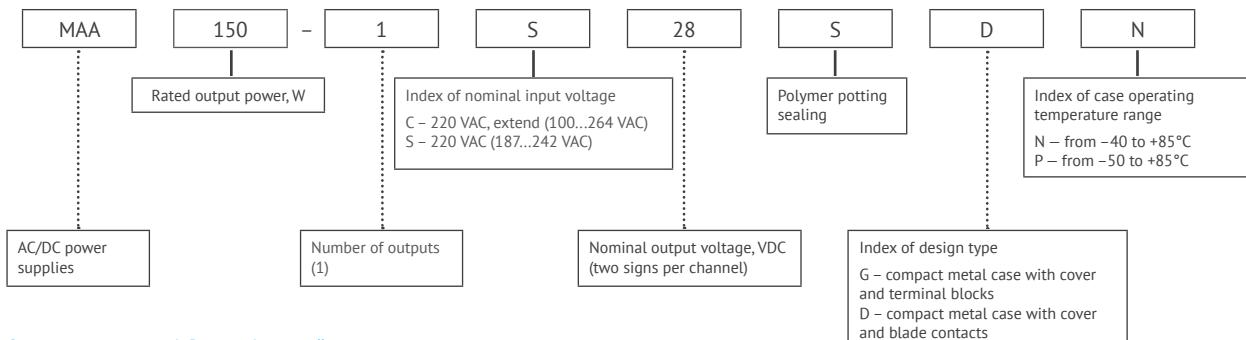


Description of MAA150 on the manufacturer's website:  
[eng.kwsystems.ru/catalog/acdc/models/5](http://eng.kwsystems.ru/catalog/acdc/models/5)

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

**Technical support**  
Mikhail Timokhin, [mtimohin@kwsystems.ru](mailto: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

## Output specifications\*

Parameter	Value				
Nominal output voltage, VDC	5	12	15	24	28
Output voltage adjustment	10 %				
Efficiency, %	82	85	86	88	89
Rated output current, A	30	12.5	10	6.25	5.36
Ripple and noise (peak-to-peak)	<2%				
Line and load regulation	max 2%				
Start-up time, ms	<500				
Remote on/off	Off at 3...5 VDC (<5 mA) output «REMOTE OFF»				
Maximum load capacity	135000 µF (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
Overload protection	Pmax<1.2 Pnom
Overtoltage protection level*	<125% Uout nom.
Overheat protection	triggers at case temperature > 85°C

## Basic specifications\*\*

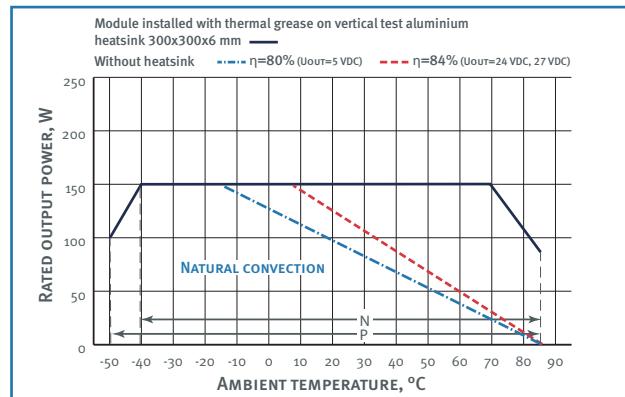
Parameter	Value	
Type of connection	screw terminals and blade contacts	
Protection level	IP20	
Case temperature, operating	«N»	-40...+85°C
	«P»	-50...+85°C
Case temperature, storage	-50...+70°C	
Humidity	98% / 35°C	
Isolation voltage	in /case	~1500 VAC
	in /out	~1500 VAC
	out /case, out/out	~500 VAC
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	
Thermal resistance case-ambient	6.4°C / W	
Typical MTBF	3 000 000 Hrs	
Case material	metal	
Dimensions, mm	134×84×33	
Weight, kg	< 0.6	
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.

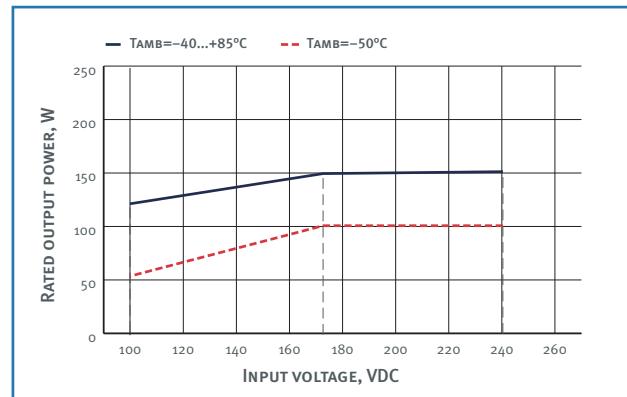
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## Derating

**vs Temperature. MAA150**

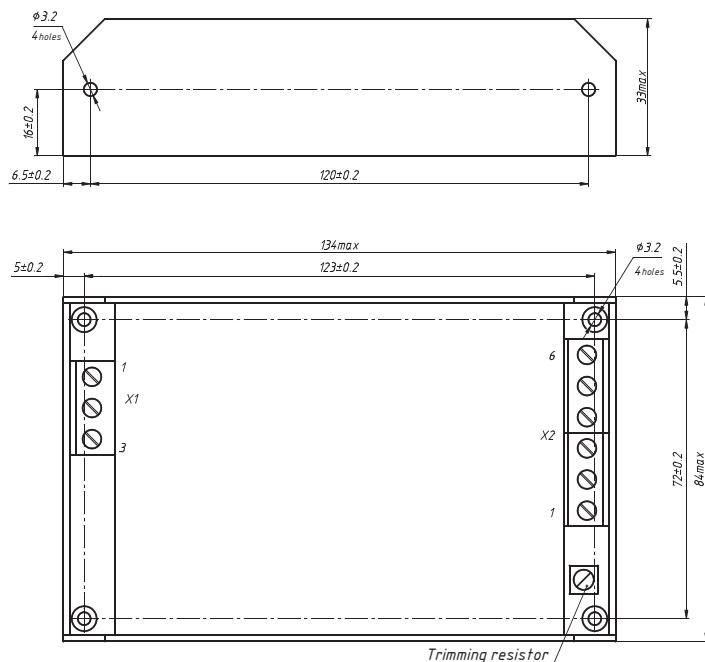


**vs Input Voltage. MAA150**



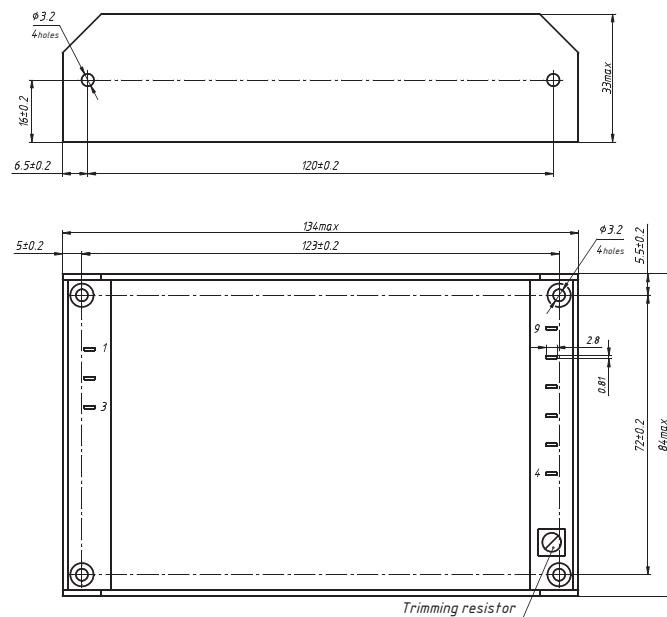
## Dimensions

### Single-channel design with terminal blocks



PIN #	X1.1	X1.2	X1.3	X2.1	X2.2	X2.3	X2.4	X2.5	X2.6
SINGLE-CHANNEL	⏚	N	L	-REMOTE OFF	+REMOTE OFF	-OUT 1	-OUT 1	+OUT 1	+OUT 1

### Single-channel design with blade contacts



PIN #	1	2	3	4	5	6	7	8	9
SINGLE-CHANNEL	⏚	N	L	-REMOTE OFF	+REMOTE OFF	-OUT 1	-OUT 1	+OUT 1	+OUT 1



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

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**This datasheet is valid for the following units:** MAA150-1C05CXX, MAA150-1C12CXX, MAA150-1C15CXX, MAA150-1C24CXX, MAA150-1C27CXX, MAA150-1S05CXX, MAA150-1S09CXX, MAA150-1S12CXX, MAA150-1S15CXX, MAA150-1S24CXX, MAA150-1S27CXX.