

## AC/DC power supplies

### MAA Family

#### MAA75-SG(SD), 75 W



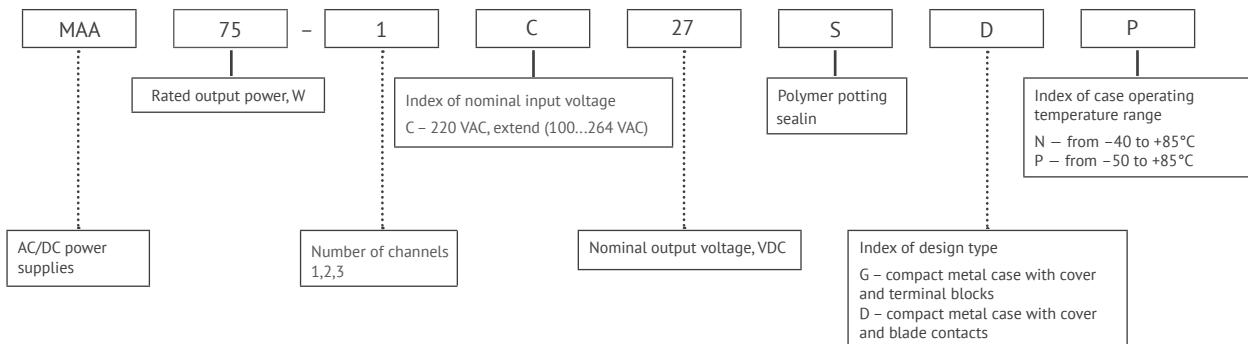
#### Features

Input voltage.....	~220 (100...264) V
Outout voltage.....	=5V; =12V; =15V; =24V; =27V
Efficiency.....	>78%
Case operating temperature.....	-40...+85°C; -50...+85°C
Dementions.....	111x61x25mm
Warently .....	2 years

#### Adventages

- ◀ Low ripple level: < 2% (at Uout=nom)
- ◀ Low level of conducted interference - GOST V 25803-91, curve 2
- ◀ Ability to operate the module without a radiator at high temperatures

## Ordering information



## Output specifications\*

Parameter	Value				
Nominal output voltage, VDC	5**	12	15	24	27
Efficiency, %	75 at Uout=5 V 78 at Uout>5 V				
Rated output current, A	15	6,25	5	3,12	2,78
Ripple spread (peak-to-peak), mV	<2% at Uout.nom				
Instability of output voltage at smooth change of input voltage and output current, %	± 2% for the first channel ± 10% for the second( third) channel				
Output channel power distribution	100% - 1 50% - 1, 50% - 2 50% - 1, 25% - 2, 25% - 3				
Start-up time, s	<0,5				
Maximum load capacitance, $\mu$ F	45000	15000	15000	5000	5000

## Input specifications\*

Parameter	Value	
Input voltage range, V	VAC	100...264
	VDC	141...372
Mains frequency range, Hz	50, 400	
Consumed current, A	2,4	
$I$ t (Joule integral) for pulse-type current	50	

\* All specifications are given for NCC, Uin.nom., Iout.nom. unless otherwise specified.

\*\* Output voltage drop.

## 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 > 100±3°C
Pre-fuse	Slow blow 3 A

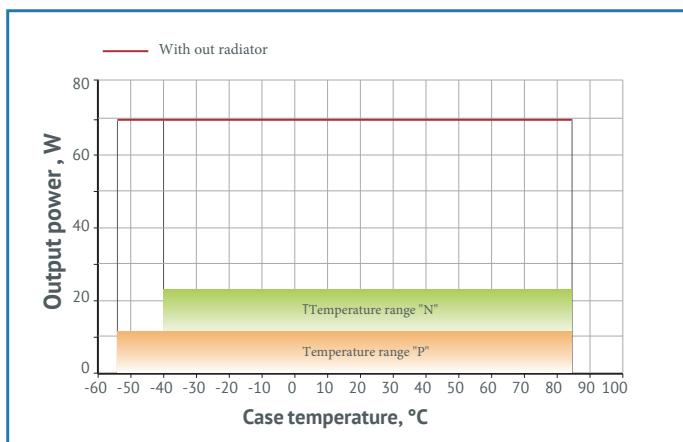
## Basic specifications

Nominal output voltage, VDC		Values
Type of connection		screw terminals and blade contacts
Protection level		IP20
Case temperature, operating, °C	«N»	-40...+85°C
	«P»	-50...+85°C
Case temperature, storage, °C		-60...+70°C
Humidity		95% / 25°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
EMC standards		EN55022 (CISPR22)
Typical MTBF, Hrs		75 000 h**
Case material		metal
Dimensions, mm		111×61×25
Weight, kg		< 0,3
Warranty		2 year

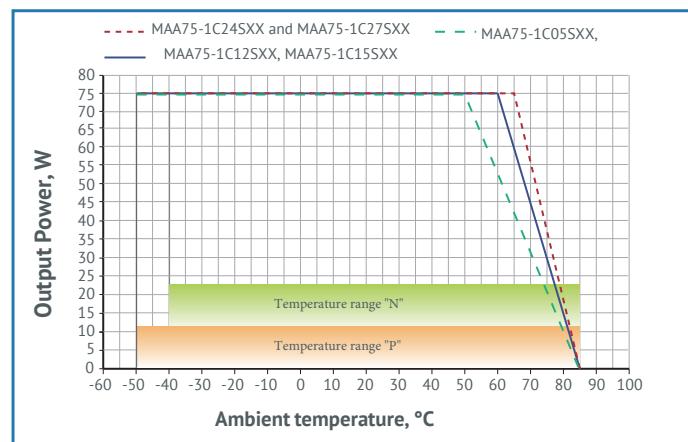
\* See power reduction graphs.

\*\* When  $U_{in}=U_{in.nom}$ ,  $P_{out}=0.5 \cdot P_{max}$ ,  $T_{case} \leq 0.5 \cdot T_{case,max}$ .

## Derating Vs Temperature Dependence

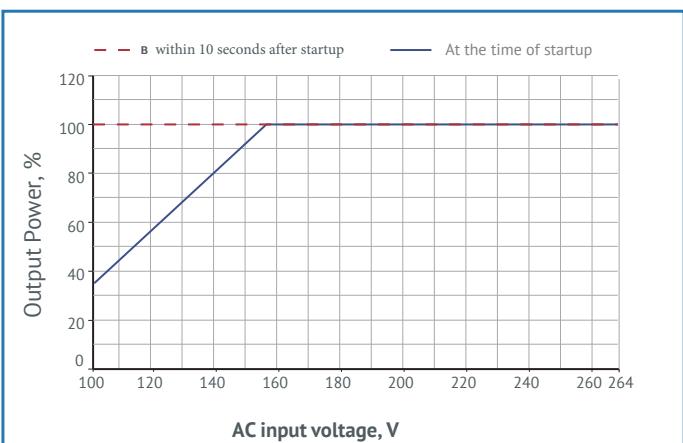


Power derating graph as a function of case temperature at ~220V nominal input voltage for MAA75-1CXXSXX modules



Power derating graph as a function of ambient temperature at rated input voltage ~220V for MAA75-1CXXSXX modules

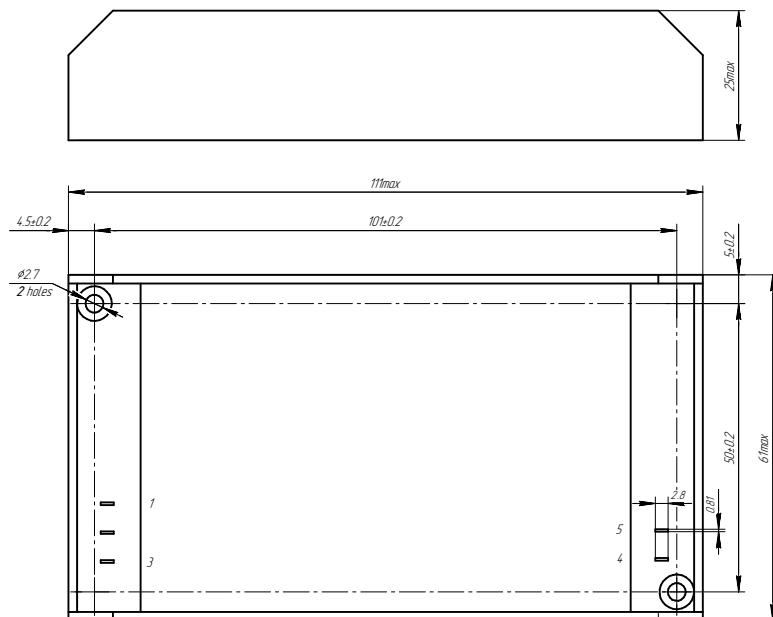
## Input voltage dependence



Power derating graph versus input voltage at -50°C for MAA75-1CXXSXX modules

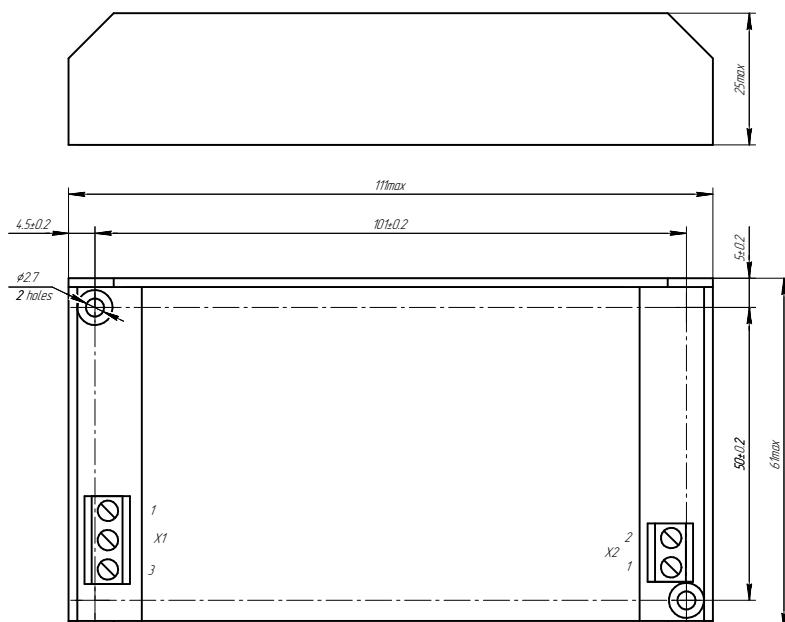
## Dimensions

### Single-channel design with blade contacts



PIN #	1	2	3	4	5
SINGLE-CHANNEL	L	N	GND	+OUT 1	-OUT 1

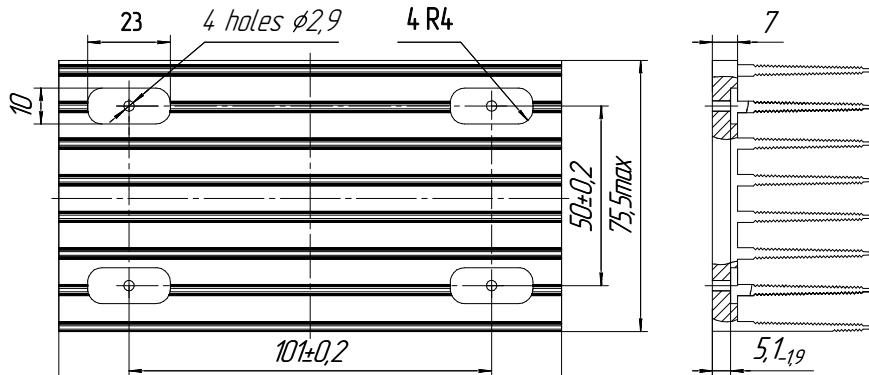
### Single-channel design with terminal blocks



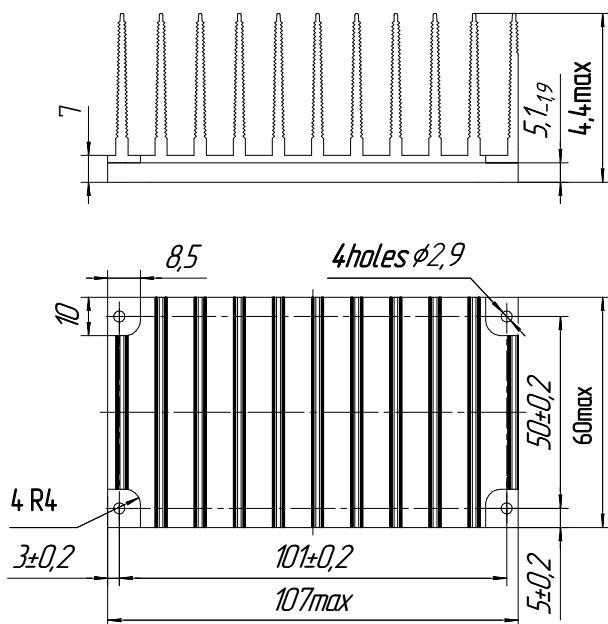
PIN #	X1.1	X1.2	X1.3	X2.1	X2.2
SINGLE-CHANNEL	L	N	GND	+OUT 1	-OUT 1

**Radiator dimension drawing<sup>1</sup>**

Radiator BKYAU.752695.058 (longitudinal ribbing)



Radiator ANZHE.752694.004 (cross ribbing)



This datasheet is valid for the following units: MAA75-1C05SXX, MAA75-1C12SXX, MAA75-1C15XX, MAA75-1C24SXX, MAA75-1C27SXX.

\*Order separately