

AC/DC power supplies

MAA Family MAA1500, 1500 W threephase



Basic specifications

Power	1500 W
Input current	up to 80 A
Input voltage	~220 (187...264) VAC ~380 (323...437) VAC
Output voltage	=24 VDC, =28 VDC, =48 VDC
Efficiency.....	89-90%
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
- ◀ DC OK
- ◀ Stand-by power supply

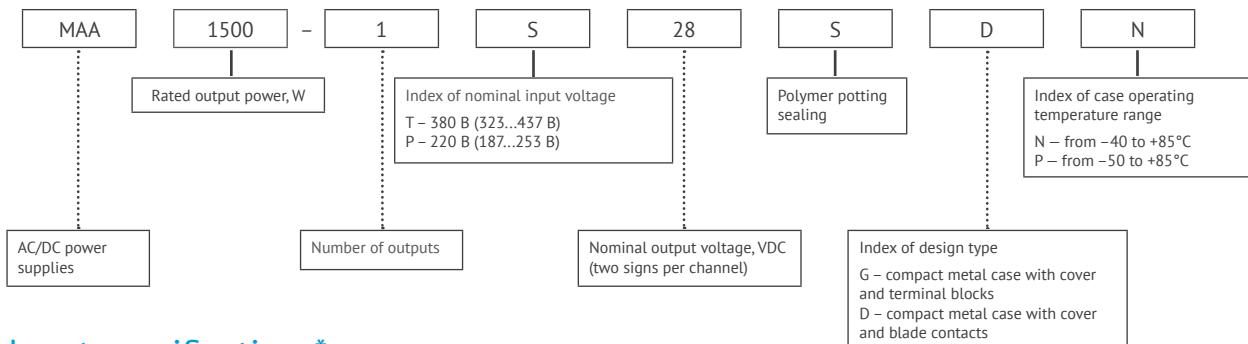


Даташит доступен по электронному адресу:
kwsystems.ru/catalog/models/13

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**	T (3ph. without neutral)	~323...437 (=455...616)
	P (3ph. without neutral)	~187...253 (=263...356)
Transient deviation range, VAC	T	~304...456
	P	~176...264
Transient time	T, P	1 s.
	T	47...53
Mains frequency range, Hz	P	360...440
	K	360...440

Output specifications*

Parameter		Value		
Nominal output voltage, VDC		24	28	48
Output voltage adjustment		10 %		
Efficiency, %		89	89	90
Rated output current, A		62.5	53.57	31.25
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 (Iout=15 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**

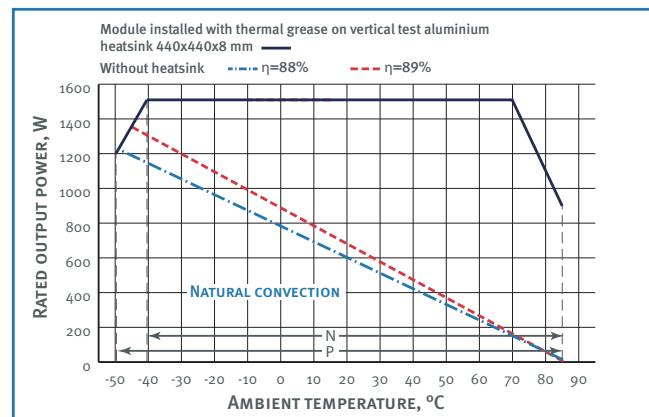
Parameter	Value	
Type of connection	screw terminals and blade contacts	
Protection level	IP20	
Case temperature, operating	«N»	-40...+85°C
	«P»	-50...+85°C
Case temperature, storage	-50...+70°C	
Humidity	98% / 35°C	
Isolation voltage	in /case	~1500 VAC
	in /out	~1500 VAC
	out /case, out/out	~500 VAC
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	
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.

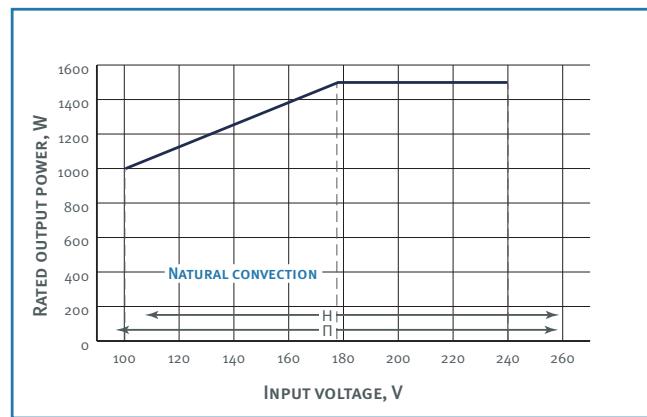
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Derating

vs Temperature

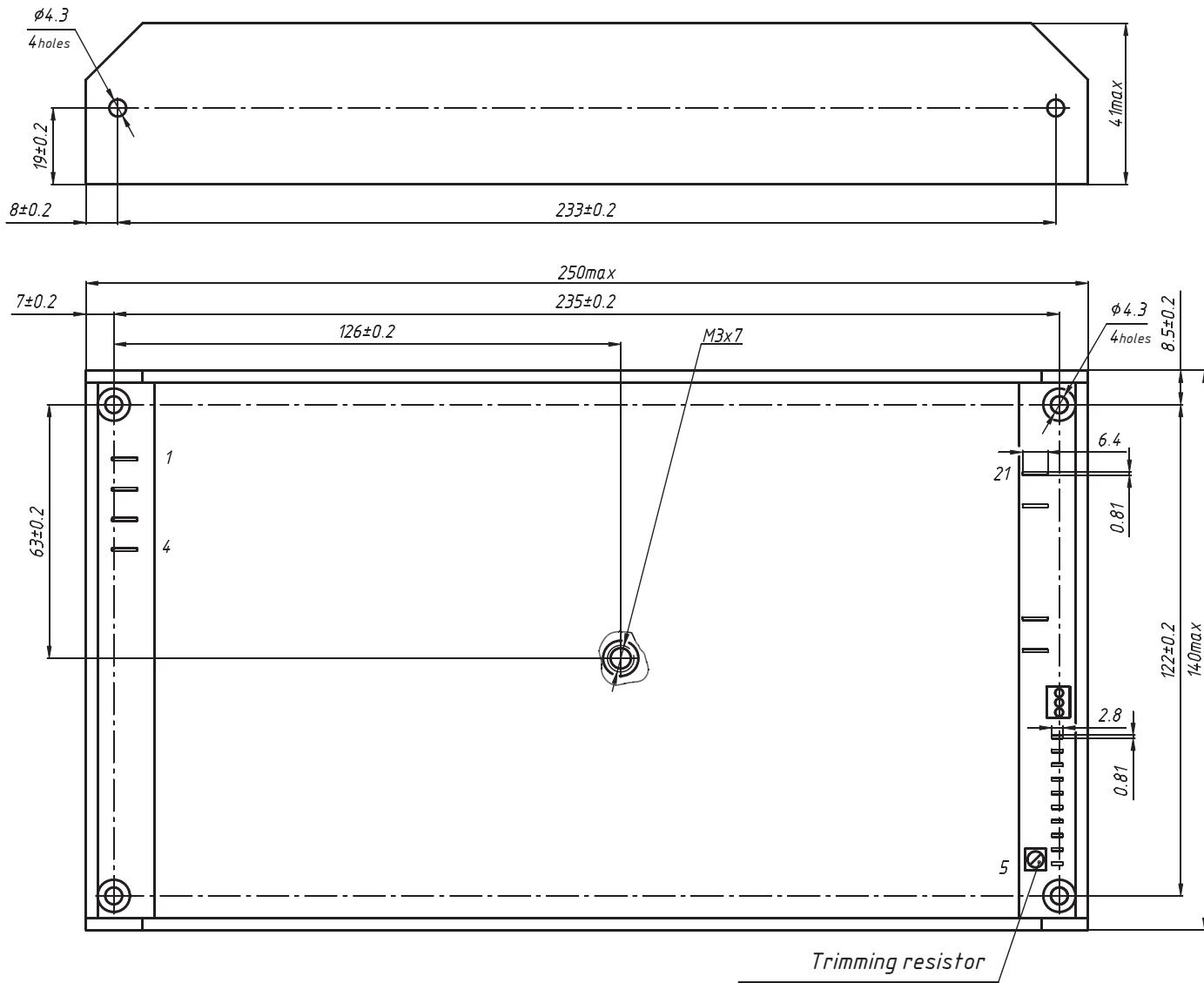


vs Input Voltage



Dimensions

Single-channel design with blade contacts

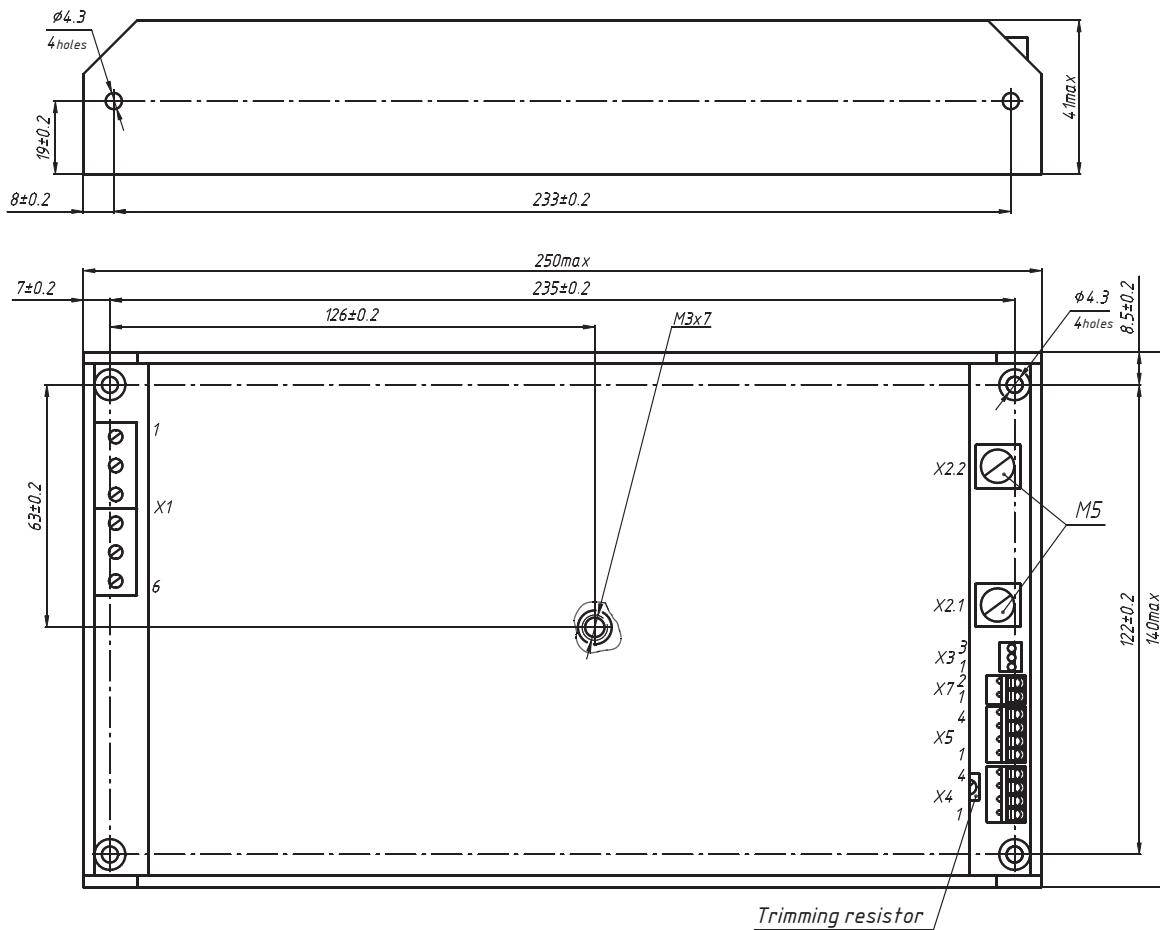


PIN #	1	2	3	4	5	6	7	8	9	10	11
SINGLE-CHANNEL	C	B	A	(+) GND	-REMOTE OFF	+REMOTE OFF	DIAG IN 2	DIAG IN 1	+RS	-RS	PARAL

PIN #	12	13	14	15	16	17	18	19	20	21
SINGLE-CHANNEL	TRIM	DIAG OUT 1	DIAG OUT 2	+FAN	-FAN	NOT USE	+OUT	+OUT	-OUT	-OUT

Dimensions

Single-channel design with terminal blocks



PIN #	X1.1	X1.2	X1.3	X1.4	X1.5	X1.6	X2.1	X2.2	X3.1	X3.2	X3.3
SINGLE-CHANNEL	C	B	A	(\ominus)	NOT USE	NOT USE	+OUT	-OUT	+FAN	-FAN	NOT USE

PIN #	X4.1	X4.2	X4.3	X4.4	X5.1	X5.2	X5.3	X5.4	X7.1	X7.2
SINGLE-CHANNEL	-REMOTE OFF	+REMOTE OFF	DIAG IN 1	DIAG IN 2	+RS	-RS	PARAL	TRIM	DIAG OUT 1	DIAG OUT 2



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