



The exemplary full marking index is as follows: **ZM24V8A-200A-0**.

#### APPLICATION

- industrial electronics and automatic control
- power engineering
- telecommunications
- telemetry, surveillance, monitoring systems

# **FEATURES**

- modular construction screw mounting (optional mounting on the TS35 DIN rail)
- powered by either AC or DC
- power factor correction (PFC) (excluding the ZM 151 version)
- cooperation with a battery bank in the direct floating mode
- temperature probe in the standard equipment

**BASIC OUTPUT VOLTAGES AND CURRENTS** 

		Nominal output current / versions (installation versions are unmarked)					
Nominal output voltage	12V	10A ZM12V10A-151A	12A ZM12V12A-200A	16A ZM12V16A-300A	24A ZM12V24A-400A	<b>32A</b> <i>ZM12V32A-600A</i>	
	24V	6A ZM24V6A-151A	8A <i>ZM</i> 24V8A-200A	12A <i>ZM</i> 24V12A-300A	16A ZM24V16A-400A	24A <i>ZM</i> 24V24A-600A	
	48V	ЗА <i>ZM4</i> 8V3A-151A	4A <i>ZM48V4A-200A</i>	6A <i>ZM48V6A-300A</i>	8A <i>ZM4</i> 8V8A-400A	12A <i>ZM4</i> 8V12A-600A	
External dimensions [mm]		66 x 111 x 203+17 (connectors)		66 x 111 x 262+17 (connectors)			
Weight [kg]		1,2	1,3		1,7		
Cooling		convection		convection and forced with the internal fan			
Power correction factor (PFC)		no	yes		yes		

# **FUNCTIONS**

- floating mode with the temperature compensation of the charging voltage -4 [mv / °C / cell]
- five position floating mode voltage switch 2,2÷2,4 [V / cell]
- bulk charging mode with the temperature compensation of the voltage
- Low Voltage Disconnect Device (LVD)
- four position battery charging current switch accessible on the top panel (25%, 50%, 75%, 100%)
- LED indication of the mains operation MAINS (green LED)
- LED indication of the current overload OCP (yellow LED)
- LED indication of the general fault FLT (yellow LED)
- LED indication of battery charging CHRG (yellow LED)
- LED indication of the battery operation BAT yellow 1/1s (time on / off)
- LED battery fault indication BAT
  - no battery yellow LED on before switching on the battery by the LVD
  - no battery circuit continuity, including the battery fuse fault yellow LED on
  - low battery voltage yellow LED on 0.5/0.5s
- possibility to connect the external LED indication system the LED system located on the cabinet's door can indicate the mains failure MAINS and general fault FLT
- remote relay indication of the main AC or DC power supply source fault (mains presence and correct operation of the power supply) MAINS FLT
- remote relay indication of the battery power source fault battery bank (three dry relay contacts available)
  BAT FLT
  - indication of the battery absence or low battery voltage
  - indication of the lack of the battery circuit continuity, including the battery fuse fault



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ZM-A



ZM-A

## **CREATION OF THE POWER SUPPLY INDEX – HOW TO ORDER**

**ZM** designation of the power supply series

12V, 24V, 48V nominal output voltage

**10A** nominal output current: value depending on the construction and the output voltage (please, see the table)

151, 200, 300, 400, 600 construction discriminant due to the output power

A functions: A – battery supervision

**0**, **1** designation of an installation version (0 – screw terminals, 1 – sockets)

**000** designation of a detailed installation and mounting version code first digit: 0 – screw terminals, 1 – sockets; second digit: 0 – standard version, E – for mounting in the EURO cassette; third digit: 0 – basic version, 1, 2, 3 etc. – subsequent customized versions

## Examples: ZM12V10A-151A-0, ZM24V12A-300A-1

## **BASIC PARAMETERS**

Input parameters		General		
Frequency	4753Hz	Efficiency	up to 87%	
Power factor	0,98 <sup>1</sup>	Working temperature range	-25 ÷ 55°C	
Input voltage	184 <u>230</u> 253VAC 165 (187 <sup>2</sup> ) <u>220</u> 297VDC	Ingress protection	IP20 EN 60529:1991+A1:2000	
Output paremeters		Compliance with standards		
Characteristics	UPI	Functionality	EN 61204:1995+A1:2001	
Output voltage regulation	0,5%	Electrical safety	EN 60950-1:2006+A1:2010 Class I EN 61204-7:2006	
Floating mode voltage for a cell at +25°C	2,20 <u>2,25</u> 2,40 V	Electromagnetic interferences	EN 55022:2010 Class B	
Bulk charging voltage at +25°C	2.36V / cell	EMC immunity	EN 61204-3:2000 EN 61000-4-2,3,4,5,6,11	
Output voltage range	10.2 14.4V 20.428.8V 40.8 57.6V		EN 61000-3-2:2006 +A1:2010+A2:2009	
Temp. compensation factor	-4mV / °C / cell	EMC emissions	EN 61000-3-3:2009	

#### MANUFACTURER

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# NOTICES

 Detailed information on choosing an installation version, fastening methods, additional fastening accessories, dimensions and functioning of the indication systems are included in the user manual for the specific power supplies

2. There is a possibility to manufacture power supplies with special configuration including expected changes in the indication system.

<sup>&</sup>lt;sup>2</sup> voltage of 187V in the case of the models without the PFC, i.e.: with the discriminant 151.



<sup>&</sup>lt;sup>1</sup> 0,65 for the ZM151 power supplies