

CODE: **PSZKT5A** v.1.0/I
 TYPE: **Buffer, switch mode power supply unit**

EN



Features:

- uninterruptible power supply DC 13,8V
- 75W power supply for ZKT access control cards
- fitting battery 7Ah/12V
- wide range of mains supply AC 176÷264V
- high efficiency
- battery charging and maintenance control
- excessive discharging (UVP) protection
- battery charge current 0,5A
- battery output full protection against short-circuit and reverse polarity connect
- LED indication
- protections:
 - SCP short-circuit protection
 - OVP overvoltage protection
 - overvoltage protection (input AC)
 - against sabotage
 - overload protection OLP
- warranty – 2 year from the production date

Description

A buffer PSU intended for uninterrupted supply to devices that require stabilised voltage of **12V DC (+/-15%)**. The PSU provides voltage of **U=13,8V DC** with output current of **I=4,5A + 0,5A battery charge***

In case of power decay, a battery back-up is activated immediately. The PSU is constructed based on the switch mode PSU, with high energy efficiency. The PSU is housed in a metal enclosure (colour RAL 9005) which can accommodate a 7Ah/12V battery. A micro switch indicates door opening (front cover).

During normal operation, the total current drawn by the equipment may not exceed I = 4,5A*.

Maximum battery charging current: 0,5A*.

Total device current + battery: 5A max*.

The power supply unit is compatible with the following controllers:

- ZKT_{ECO}, inBio series: inBio160, inBio260, inBio460

- ZKT_{ECO}, C3-series: C3-100, C3-200, C3-400

* Refer to chart 1

SPECIFICATIONS	
PSU type	A (EPS - External Power Source)
Mains supply	AC 176÷264V/50Hz
Current up to	0,78A/230VAC max.
Supply power	75W max.
Efficiency	80%
Output voltage	13,8V DC – buffer operation 9,5V÷13,8V DC – battery-powered operation
Output current $t_{AMB}<30^{\circ}\text{C}$	4,5A + 0,5A battery charge – refer to chart 1
Output current $t_{AMB}=40^{\circ}\text{C}$	3A + 0,5A battery charge – refer to chart 1
Voltage adjustment range	12÷14VDC
Ripple	120mV p-p max.
Battery charge current	0,5A max. @ 7Ah ($\pm 5\%$)
Short-circuit protection SCP	electronic, automatic return
Overload protection OLP	105-150% of the PSU power, automatic return
Battery circuit protection SCP and reverse polarity connection	glass fuse
Surge protection	varistors
Overvoltage protection OVP	>16V (automatic recovery)
Excessive discharge protection UVP	$U<9,5\text{V}$ ($\pm 5\%$) – disconnection of battery
Sabotage protection: - TAMPER output indicating enclosure opening	- microswitch, NC contacts (enclosure closed), 0,5A@50V DC (max.)
LED indication	Yes – LEDs
Operating conditions	2nd environmental class, $-10^{\circ}\text{C}+40^{\circ}\text{C}$
Enclosure	Steel plate DC01, thickness 1mm colour RAL 9005 (black)
Dimensions	$W=335, H=280, D+D_1=82+8$ [$\pm 2\text{mm}$] $W_1=340, H_1=285$ [$\pm 2\text{mm}$]
Net/gross weight	3,00 / 3,20 kg
Fitting battery	7Ah/12V (SLA) max.
Closing	Cheese head screw x 2 (at the front), (lock assembly possible)
Declarations, warranty	CE, 2 years from the production date
Notes:	The enclosure does not adjoin the assembly surface so that cables can be led. Convectional cooling. Power-supply: $\Phi 0,63\pm 2,5$, Battery output: 6,3F-2,5.

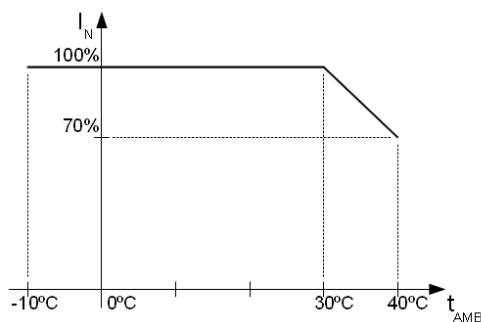


CHART 1. Acceptable output current from the PSU depending on ambient temperature.