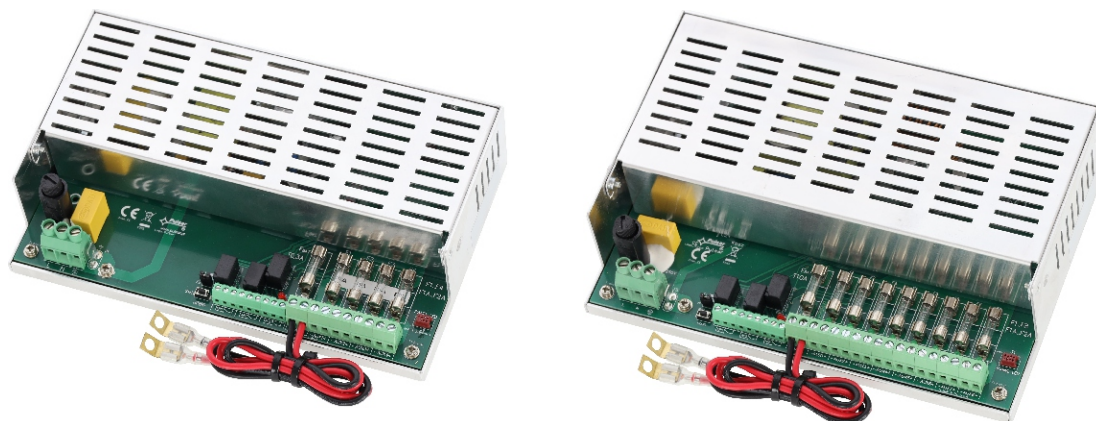


CODE: **PSDCG2** v.1.0/II
NAME: **PSDCG2 13,8V/4A/4x1A multi-output buffer switch-mode power supply unit Grade 2**

EN



Features:

- compliance with norm EN50131-6:2017 in grade 1, 2 and II environmental class
- compliance with norm (KD) EN60839-11-2:2015+AC:2015 standard and I environment class
- supply voltage ~200 - 240 V
- **DC 13,8 V** uninterruptible power supply
- available versions with **4x1A, 8x1A** current efficiencies
- high efficiency (up to 86%)
- battery charging current jumper selectable
- deep discharge battery protection (UVP)
- optional equipment: set of external LED indicators: PKAZ168, mounting plates DIN4
- LED optical indication
- function START allows running PSU from battery power
- dynamic battery test
- battery circuit continuity control
- battery voltage control
- **EPS technical output** indicating power loss – relay type
- **APS technical output** indicating battery failure – relay type
- **FPS technical output** of fuse activation indication
- battery charging and maintenance control
- battery output protection against short circuit and reverse connection
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
- Warranty – 2 years from production date

DESCRIPTION

The buffer power supply is designed in accordance with the requirements of the (I&HAS) EN50131-6:2017 grade 1,2, II environmental class and EN60839-11-2:2015+AC:2015, I environmental class. The power supplies units are intended for an uninterrupted supply of I&HAS and KD devices requiring stabilized voltage of 12 or 24 V DC ($\pm 15\%$).

PARAMETERS OF POWER SUPPLIES:

PSU's name	Output voltage	Charging current	Output current	Total output current with charge
PSDCG2-12V4x1A	13,8 V	0,5 / 1 A	4x1 A	5 A
PSDCG2-12V8x1A		1 / 2 A	8x1 A	10 A

TECHNICAL DATA	PSDCG2-12V4x1A	PSDCG2-12V8x1A
PSU type EN50131-6:	A, Grade 1,2, II environmental class	
Power supply:	~ 200 - 240 V	
Current consumption:	0,7 A	1,3 A
Power frequency:	50/60 Hz	
Inrush current:	40 A	
Output power PSU:	69 W	138 W
Output current:	4x1 A	8x1 A
Total output current with charging:	5 A	10 A
Efficiency:	85%	86%
Output voltage:	11 - 13,8 V – buffer operation 10 - 13,8 V – battery-assisted operation	
Current consumption by PSU during battery-assisted operation:	50mA	
Fitting battery:	7 – 17 Ah	7 – 40 Ah
Battery circuit protection SCP and reverse polarity connection:	- F _{BAT} fuse (in case of a failure, fuse-element replacement required)	
Overload protection (OLP):	105-150% PSU power, automatically recovered	
Over voltage protection (OVP):	>19 V automatic recovery	
Deep discharge battery protection UVP:	U<9,5 V (± 0,5V) – disconnection of battery circuit	
Optical indication:	- LEDs on PCB of power supply unit: Green LED1...LED..n LEDs indicate power supply status on outputs: AUX1...AUX..n LED FPS on PSU's PCB – fuse damage indication	
LED optical indication output (intended for optional indication set PKAZ168):	LED AC – presence of AC voltage LED DC – presence of DC voltage in output of PSU APS FLT – battery failure	
Operating conditions:	Temperature: -10°C ÷ +40°C relative humidity 20%...90%, without condensation	
Protection class EN 62368-1:	I (first)	
Protection grade EN 60529:	IP20	
Environment class EN 50131-6:	II	
Environment class EN 60839-11-2:	I (first)	
Operating temperature:	-10°C...+40°C	
Storage temperature:	-20°C...+60°C	
Vibrations and impulse waves during transport:	According to PN-83/T-42106	
Declarations, warranty:	CE, 2 years from production date	
Optional equipment:	Optional equipment: set of external LED indicators: PKAZ168, mounting plates DIN4	

