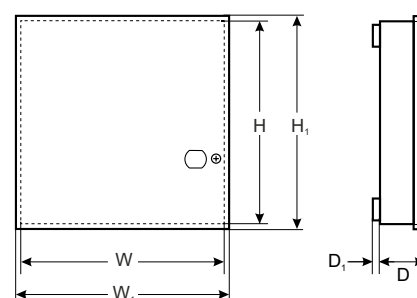


CODE: **HPSG2-12V5A-B** v.1.0/I

NAME: **HPSG2 13,8V/5A/7Ah buffer, switch mode power supply unit Grade 2**



Features:

- compliance with norm EN50131-6:2017 in grade 1, 2 and II environment class
- compliance with norm (KD) EN60839-11-2:2015+AC:2015 standard and I environment class
- supply voltage ~200 – 240 V
- uninterrupted voltage o DC 13,8 V/5 A
- battery charging current jumper selectable
- fitting battery 7Ah/12V (SLA)
- high efficiency (up to 85%)
- deep discharge battery protection (UVP)
- LED optical indication
- START function of manual switch to battery power
- dynamic battery test
- battery circuit continuity control
- battery voltage control
- battery charging and maintenance control
- EPS technical output for AC power failure - relay
- APS technical output indicating battery failure - relay
- FPS technical output indicating fuse activation - relay
- battery output protection against short circuit and reverse connection
- protections:
 - SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection: unwanted enclosure opening
- Warranty: 2 years

GENERAL 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. Power supplies units are intended for for an uninterrupted supply of I&HAS and KD devices requiring stabilized voltage of 12 V DC ($\pm 15\%$).

DISPLAYING PARAMETERS OF THE POWER SUPPLY:

PSU's name	Output voltage	Charging current	Output current		Total output current with charging
			In standby mode for grade 1, 2 EN50131-6	For general purpose application	
HPSG2-12V5A-B	13,8 V	0,5 / 1 A	$\Sigma=0,58$ A	4 / 4,5 A	5 A

TECHNICAL DATA	HPSG2-12V5A-B
PSU type (EN 50131-6)	A (EPS - External Power Source), II environment class
Supply voltage	~ 200 – 240 V
Current consumption	0,7 A
Power frequency	50/60 Hz
Inrush current	40 A
Output power PSU	69 W
Total output current with charging	5 A
Efficiency	85%
Output voltage	11 – 13,8 V - buffer operation 10 – 13,8 V - battery-assisted operation
Ripple voltage (max.)	100 mV p-p
Current consumption by PSU systems during battery-assisted operation	50 mA
Battery capacity	7-9 Ah/ 12 V (SLA)
Charging current (jumper selectable)	0,5 / 1 A
Overload protection (OLP)	105 – 150% of power supply, automatic recovery
Over voltage protection (OVP)	>19 V (activation requires disconnecting the load or supply for about approx. 1 min.)
Battery circuit protection SCP and reverse polarity connection	- glass fuse F_{BAT} (in case of a failure, fuse-element replacement required - under power supply cover)
Fuses: - F_{BAT} - F3-4	T6,3A/250V
	F5A/250V
Deep discharge battery protection UVP	$U < 9,5 \text{ V } (\pm 5\%)$ - disconnection of battery circuit
Technical outputs: - EPS; output indicating AC power failure - APS; output indicating battery failure - FPS; output indicating failure of one of outputs, relay type	- relay type: 1A@ 30 V DC/50 V AC
Optical indication	- LEDs on PCB of power supply unit - LED indicators on power supply's cover
Terminals: Mains supply: AUX3-AUX4 outputs:	0,5 – 2,5 mm ² (AWG 26 – 12)
Technical output	0,5 – 1 mm ² (AWG 26 – 18)
Battery outputs	Battery wires 6,3F – 45cm, angle muffs ML062
Operating conditions	Temperature: -10°C – +40°C relative humidity 20%...90%, without condensation
Protection grade EN 60529	IP20
Environment class EN 50131-6	II
Environment class EN 60839-11-2	I
Vibrations and impulse waves during transport	According to PN-83/T-42106
Enclosure dimensions (W x H) [±2mm]	300 x 258
Enclosure dimensions: (W ₁ x H ₁ x D ₁ + D) [±2mm]	305 x 263 x 77 + 8
Fixing (W x H)	267 x 226
Space for battery (W x H x D)	200 x 120 x 70
Net/gross weight	2,2 / 2,3 [kg]
Enclosure	Steel sheet DC01 0,7mm
Closing	Cap screw (at the front, lock assembly possible)
Declarations, warranty	CE, 2 years
Notes	Convictional cooling