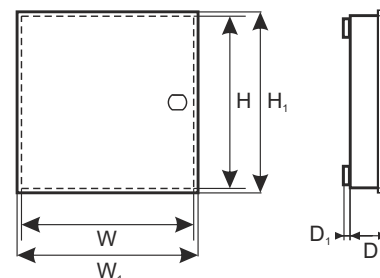


CODE: **HPSDCG2** v.1.0/II
TYPE: **Buffer power supply units, multi-output Grade 2**

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)
- function START allows running PSU from battery power
- LED optical indication
- 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 – relay type
- 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

HPSDCG2 series 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 an uninterrupted supply of I&HAS and KD devices requiring stabilized voltage of 12 V DC ($\pm 15\%$). They are mounted inside a metal enclosure equipped with a signalling panel and a microswitch indicating opening of door (lid).

PARAMETERS OF POWER SUPPLIES:

PSU's name	Output voltage	Charging current	Output current		Total output current with charge
			in standby mode for grade 1, 2 EN50131-6	for general purpose application	
HPSDCG2-12V4x1A-B	13,8 V	0,5 / 1 A	$\Sigma=0,58$ A	4x1 A	5 A
HPSDCG2-12V8x1A-C		1 / 2 A	$\Sigma=1,41$ A	8x1 A	10 A
HPSDCG2-12V8x1A-D		1 / 2 A	$\Sigma=3,33$ A	8x1 A	10 A



TECHNICAL DATA	HPSCDG2-12V4x1A-B	HPSCDG2-12V8x1A-C	HPSCDG2-12V8x1A-D
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	4 x 1 A	8 x 1 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	50 mA		
Battery capacity	7 – 9 Ah	17 – 20 Ah	40 – 45 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% power, automatically recovered		
Over voltage protection (OVP)	>19 V automatic recovery		
Deep discharge battery protection UVP	U<9,5 V (± 5%) – disconnection of battery circuit		
Optical indication	- LEDs on PCB of power supply unit - LED indicators on power supply's cover		
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		
Notes	Enclosure does not adjoin assembly surface so that cables can be led.		

