Power supplies HPSG3 series

Switch mode power supply units with battery backup Grade 3



EN

CODE:

TYPE:

HPSG3 v.1.0/I

Switch mode power supply units with battery backup Grade 3





Features:

- compliance with norm EN 50131-6:2017 in grade 1, 2, 3 and II environmental class
- compliance with norm EN60839-11-2:2015+AC:2015 and I environmental class
- supply voltage ~200 240 V
- DC 13,8 V or 27,6 V uninterruptible power supply
- powered by 17Ah 65Ah batteries
- high efficiency (up to 86%)
- available versions with current efficiencies 13,8V: 3A, 5A, 10A
- 27,6V 2A, 5A
- low ripple voltage
- microprocessor-based automation system
- · measurement of resistance of battery circuit
- automatic temperature-compensated charging
- automatic battery test
- output voltage control
- battery circuit continuity control
- battery voltage control
- battery charging and maintenance control
- deep discharge battery protection (UVP)

- battery overcharge protection
- battery output protection against short circuit and reverse connection
- function START allows running PSU from battery power
- optical indication
- technical outputs OC type (open collector)
- collective failure input EXT IN
- EPS technical output indicating AC power loss
- PSU technical output indicating PSU failure
- APS technical output indicating battery failure
- protections:
 - · SCP short circuit protection
 - OLP overload protection
 - OVP overvoltage protection
 - surge protection
 - antisabotage protection: unwanted enclosure opening -TAMPER
- convectional cooling
- warranty 3 years from production date
- optional equipment (AWZ642)

DESCRIPTION

Buffer power supplies have been designed in accordance with requirements of the (I&HAS) EN50131-6:2017 grade 1-3 and II environmental class and (KD) EN60839-11-2:2015+AC:2015 standard and I environmental class. Power supplies unitsare intended for for an uninterrupted supply of alarm system devices requiring stabilized voltage of 12 or 24 V DC (±15%).

Depending on a required protection level of the alarm system in the installation place, the PSU efficiency and the battery charging current should be set as follows:

Power supply model	Battery / charging current	Output current [A] depending on application PSU (according to EN50131-6)		
		Grade 1, 2 - standby time 12 h	* Grade 3 standby time 30 h	** Grade 3 standby time 60 h
HPSG3-12V3A-C	17Ah / 0,8 A	1,39 A	0,54 A	0,25 A
HPSG3-12V5A-C	17Ah / 0,8 A	1,39 A	0,54 A	0,25 A
HPSG3-12V5A-D	40Ah / 1,8 A	3,3 A	1,30 A	0,64 A
HPSG3-12V10A-E	65Ah / 2,6 A	5,4 A	2,1 A	1,0 A
HPSG3-24V2A-C	17Ah(x2) / 0,8 A	1,4 A	0,5 A	0,24 A
HPSG3-24V5A-D	40Ah(x2) / 1,8 A	3,3 A	1,3 A	0,63 A

* if faults of primary source are reported to the ARC alarm receiving centre (in accordance with 9.2 EN50131-6)

** if faults of primary source are not reported to the ARC alarm receiving centre (in accordance with 9.2 EN50131-6)

Tel. +48-14-610-19-45 www.pulsar.pl e-mail: sales@pulsar.pl

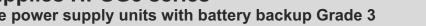








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TECHNICAL DATA	HPSG3-12V	HPSG3-24V		
PSU type EN 50131-6	A, degree of protection 1 – 3, II environmental class			
Supply voltage	~200 – 240 V			
Output voltage (TA= 20°C)	11 V-13,8 V DC – buffer operation 10 V-13,8 V DC – battery- assisted operation	22 V-27,6 V DC – buffer operation 20 V-27,6 V DC – battery- assisted operation		
Current consumption by PSU during battery-assisted operation	35 mA	45 mA		
Coefficient of temperature compensation of battery voltage	-18 mV/ °C (-5°C -40°C)	-36 mV/ °C (-5°C- 40°C)		
Low battery voltage indication	Ubat < 11,5 V, during battery operation	Ubat < 23 V, during battery operation		
Over voltage protection OVP	U>16 V±1 V, automatic recovery	U>32 V±2 V, automatic recovery		
Short-circuit protection SCP	Glass fuse F _{BAT} (in case of a failure, fuse-element replacement required)			
Overload protection OLP	105-150% power, automatically recovered			
Battery circuit protection SCP and reverse polarity connection	Glass fuse F _{BAT} (in case of a failure, fuse-element replacement required)			
Deep discharge protection UVP	10 V +/- 0,3 V	20 V +/- 0,6 V		
Technical outputs: - EPS; output indicating AC power failure	- OC type: 50 mA max. normal status: L (0 V) level, failure: hi-Z level, time lag: 11 s.			
Technical outputs: - APS; output indicating battery failure - PSU; output indicating PSU failure	- OC type: 50 mA max. normal status: L (0 V) level, failure: hi-Z level.			
Technical outputs: - EXTi; input of external failure	Closed input – no indication Open input – alarm			
Protection class EN 62368-1	l (first)			
Protection grade EN 60529	IP44			
Closing	Screw x 2 (at front)			
Declarations, warranty	CE, 3 years from production date			
Notes	Convectional cooling			







