

CODE: **DING2** v.1.0/I

EN

NAME: **Switch mode power supply units with battery backup for a DIN rail 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
- mains supply of ~200 – 240 V
- DC 13,8 V or 27,6 V uninterruptible power supply
- available versions with current efficiencies  
**13,8 V: 2A/3A/5A**  
**27,6 V: 2A/3A**
- high efficiency (up to 90%)
- battery charging current jumper selectable (selected models)
- deep discharge battery protection (UVP)
- function START allows running PSU from battery circuit
- LED optical indication
- dynamic battery test
- battery circuit continuity control
- battery voltage control
- EPS technical output indicating power loss – OC type
- APS technical output indicating battery failure – OC 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

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

### DISPLAYING PARAMETERS OF POWER SUPPLY:

PSU's name	Output voltage	Charging current	Total output current with charging
DING2-12V2A	13,8 V	0,5 A	2,5 A
DING2-12V3A	13,8 V	0,5 / 1 A	3,5 A
DING2-12V5A	13,8 V	1 / 2 A	5 A
DING2-24V2A	27,6 V	0,5 / 1 A	2 A
DING2-24V3A	27,6 V	0,5 / 1 A	3 A

TECHNICAL DATA	DING2-12V	DING2-24V
PSU type EN50131-6:	A, Grade 1,2, II environmental class	
Supply voltage:	~ 200 – 240 V; 50/60Hz	
Output voltage:	11 - 13,8 V – buffer operation 10 - 13,8 V – battery-assisted operation	22 - 27,6 V – buffer operation 20 - 27,6 V – battery-assisted operation
Current consumption by PSU systems during battery-assisted operation:	20mA	
Battery circuit protection SCP and reverse polarity connection:	- polymer fuse (returnable)	
Overload protection (OLP):	105-150% PSU power, automatically recovered	
Over voltage protection (OVP):	>19 V (after running, disconnect PSU for about 1 minute)	>37 V (after running, disconnect PSU for about 1 minute)
Deep discharge battery protection (UVP):	U<9,5 V (± 0,5V) – disconnection of battery circuit	U<18 V (± 0,5V) – disconnection of battery circuit
Optical indication:	- LED indicators on power supply's cover	
EPS output:	OC type: 50 mA max. normal status: L (0V) level, failure: hi-Z level (time lag: 30s)	
APS output:	OC type: 50 mA max. normal status: L (0V) level, failure: hi-Z level	
Operating conditions:	Temperature: -10°C ÷ +40°C relative humidity 20%...90%, without condensation	
Protection class EN 62368-1:	II	
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:	Convexional cooling	

