

Required functions for the buffer power supplies working in 1, 2 or 3 grade, EN 50131-6 compliant.

Function	Requirements of the EN 50131-6			PSBEN series
	Grade 1	Grade 2	Grade 3	
No EPS network	Yes	Yes	Yes	Yes
Low battery voltage	Yes	Yes	Yes	Yes
Battery deep discharge protection	–	–	Yes	Yes
Battery damage	–	–	Yes	Yes
No battery charge	–	–	Yes	Yes
Low output voltage	–	–	Yes	Yes
High output voltage	–	–	–	Yes
PSU damage	–	–	Yes	Yes
Surge protection	–	–	Yes	Yes
Short-circuit protection	Yes	Yes	Yes	Yes
Overload protection	Yes	Yes	Yes	Yes
Output fuse activation	–	–	–	Yes
Battery fuse damage	–	–	–	Yes
EPS technical output	Yes	Yes	Yes	Yes
APS technical output	Yes	Yes	Yes	Yes
Low battery voltage indication	–	–	–	Yes
PSU technical output	Yes	Yes	Yes	Yes
Tamper – unwanted enclosure opening	Yes	Yes	Yes	Yes
Tamper – detachment from the mounting surface	–	–	Yes	Yes

Model	Total current	Fitting battery	Grade 1,2		Grade 3 with ARC*		Grade 3	
			I_{lad} 12h	Charging time 0,8°C	I_{lad} 30h	Charging time 0,8°C	I_{lad} 60h	Charging time 0,8°C
PSBEN1012B	1,2A	7Ah/12V	0,58A+0,6A	10h30min	0,23A+0,6A	10h30min	0,116A+0,6A	10h30min
PSBEN2012B	2,2A	7Ah/12V	0,58A+1,5A	4h12min	0,23A+1,5A	4h12min	0,116A+1,5A	4h12min
PSBEN2012C	2,2A	17Ah/12V	1,4A+0,6A	25h30min	0,56A+1,5A	10h12min	0,28A+1,5A	10h12min
PSBEN3012C	3,2A	17Ah/12V	1,4A+1,5A	10h12min	0,56A+1,5A	10h12min	0,28A+1,5A	10h12min
PSBEN3012D	3,2A	40Ah/12V	2,6A+0,6A	60h	1,33A+1,5A	24h	0,66A+1,5A	24h
PSBEN5012C	5,0A	17Ah/12V	1,4A+3A	5h6min	0,56A+3A	5h6min	0,28A+3A	5h6min
PSBEN5012D	5,0A	40Ah/12V	2,8A+2,2A	16h24min	1,33A+3A	12h	0,66A+3A	12h
PSBEN5012E	5,0A	65Ah/12V	3,5A+1,5A	39h	2,16A+3A	19h30min	1,08A+3A	19h30min
PSBEN10A12C	10,6A	17Ah/12V	1,4A+3A	5h6min	0,56A+3A	5h6min	0,28A+3A	5h6min
PSBEN10A12D	10,6A	40Ah/12V	3,33A+3A	12h	1,33A+3A	12h	0,66A+3A	12h
PSBEN10A12E	10,6A	65Ah/12V	5,41A+3A	19h30min	2,16A+3A	19h30min	1,08A+3A	19h30min

The table also concerns power supplies with graphic LCD displays, e.g. PSBEN1012B/LCD

* ARC (Alarm Receiving Centre) power supplies in which the main power (EPS) failure is reported to the alarm centre (ARC), required standby time equals 30 h (in compliance with 9.2 - EN-50131-1).