

## LEDEOS<sup>®</sup>-P

### Cost-saving lighting of common space in residential and public buildings

#### Description

LEDEOS<sup>®</sup>-P system is defined for lighting of common space in blocks of flats, apartment houses, office buildings, hotels etc. System uses LED lamps which can be installed in most of current lamps. System installation requires none checks on current cabling. That's why the installation is very fast. LEDEOS<sup>®</sup>-P system fulfils all conditions of ČSN EN 1838 Standard for stand-by lighting. Thanks to very low electricity consumption can be used as standby lighting<sup>1</sup> for several hours.

#### Advantages of LEDEOS<sup>®</sup>-P system

- High electricity cost-savings.
- Lifetime more than 50 years<sup>2</sup> (no electrolyte capacitors).
- Minimal maintenance costs.
- High reliability.
- Function of stand-by lighting.
- Possibility of feed by PV cell – connection to PV (PhotoVoltaic) panel reduces electricity cost about 70-85%.
- Possibility of choosing working mode. LED lamps react immediately without unpleasantly blinking (fluor lamp) or delayed start (compact lamp).
- Immediate lighting start.
- Soft start and slowing down. Soft start reduced unpleasant glare. After setting time light performance firstly drop to 50% and then slowly fall to switch-off mode. In this time is possible to retry time interval again by press the button.
- Wide variability of system.
- Low acquisition costs and quick return of investment (which is 2 – 3 years depending on number of lamps, time of working and accessories).
- Simple installation.
- 5 years assurance on components.
- Connection without electrolyte capacitors.
- LEDEOS<sup>®</sup>-P system can be optimized according to customer requests.

<sup>1</sup> Standby lighting is direct compensation for normal lighting and it allows standard function without big restriction.

<sup>2</sup> Without accumulators

### Example – lighting annual costs

Number	floor lamps in floor	4			6			8			10			12			14			
		1	2	4	1	2	4	1	2	4	1	2	4	1	2	4	1	2	4	
<b>60W bulbs</b>																				
average costs/year		1 533	3 066	6 132	2 300	4 599	9 198	3 066	6 132	12 264	3 833	7 665	15 330	4 599	9 198	18 396	5 365	10 731	21 462	
<b>LEDEOS<sup>®</sup>-P</b>																				
average costs/year		140	280	560	210	420	840	280	560	1 120	350	700	1 400	420	840	1 680	490	980	1 960	
<b>Savings CZK/year</b>		1 393	2 786	5 572	2 090	4 179	8 358	2 786	5 572	11 144	3 483	6 965	13 930	4 179	8 358	16 716	4 875	9 751	19 502	
<b>Savings in %</b>		91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	91	

### Technical data

PARAMETERS	
LED lamp power	4,8W
Luminous flux	550lm (60W bulb 620lm)
Lifetime	50 000 hours for lighting reduction to 70%
Light temperature	4 000K or 3 000K
Power supply unit	100W, 300W, 600W
Power supply for LED	1,5A max. voltage 42V
Number of LED lamps connected to 1 power supply	1 – 12
Standby source	2ks, service-free 12V/7Ah or 12V/27Ah
Accumulator lifetime	10 years
OPTIONAL ACCESSORIES	
Photovoltaic panel	50Wp for AKU 7Ah or 180Wp for AKU 27Ah
Movement sensor	PIR
Wireless control	Standard IEEE 802.15.4

### Connection of LEDEOS<sup>®</sup>-P system

