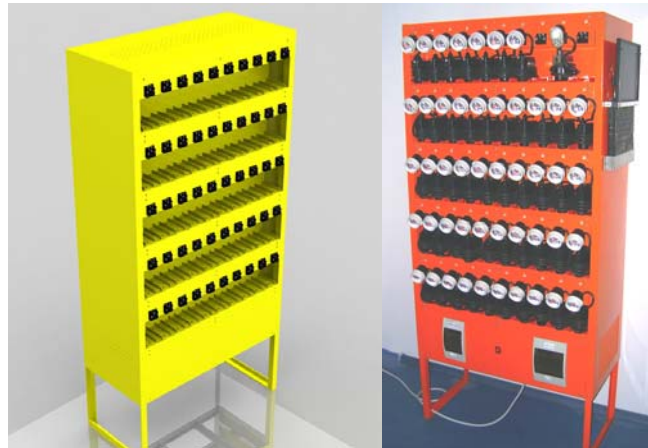


# CHARGING RACK PPE



## Technical data

	PPE 50	PPE 100
Charging station type	PPE 50	PPE 100
Number of charging places	50	100
Supply voltage	230V / 400V	230V / 400V
Power consumption	300W	600W
Current / charging place	450mA – 1A (depends of battery type)	450mA – 1A (depends of battery type)
Charging voltage	12V DC	12V DC
<b>Dimensions</b>		
Height	1820 mm	
Width	865 mm	
Depth	400 mm	

## Description

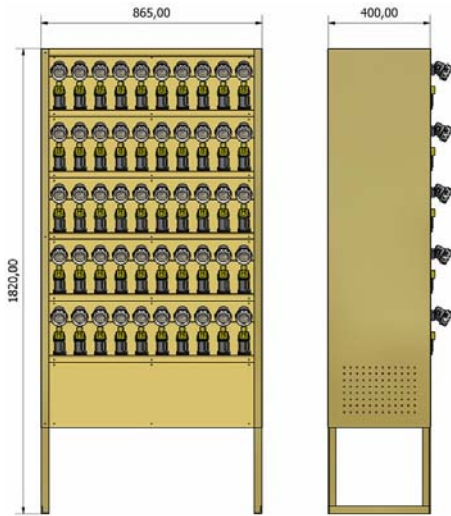
Charging station PPE is used for charging batteries of lamp series RSN-7 and RSN-8. Number of charging places can be 50 or 100, and data transfer system can be choosable. Charging is controlled by microcontroller in the lamp head.

- there are two steps of charging:
  - first step is during first 7 hours. In this time the battery is charged at maximum current (0.5 or 1 A). In this first step the battery will be charged minimum 80 %
  - in the second step the current is half of the maximum current used in the first step and the battery is charged until 100% and maintained charged. At this current the lamp can stay in the charger for days with no problem for the battery.
- the electronic have a bicolour LED which signal permanently the lamp stage:
  - Blinking GREEN – the lamp was detected in the charger. After 10 seconds the charging will begin
  - RED –first step of charging at nominal current
  - GREEN – second step of charging, the battery is charged minimum 80 %
  - Alternative GREEN/RED – the DIODE which prevents the appearance of a current on the charging terminals of the lamp is damaged. The lamp will not be charged until the problem will be solved.
  - Blinking RED – the battery is over discharged or damaged. In this case the charging is made in impulse of current until the voltage grows over 3.6 V when the charging will be made at nominal current and the LED will be RED.

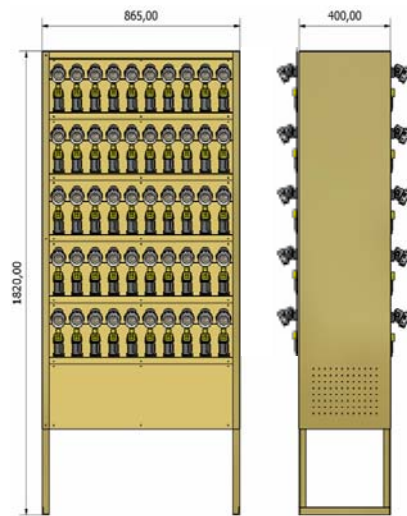


**➤ Dimensions**

**PPE 50**

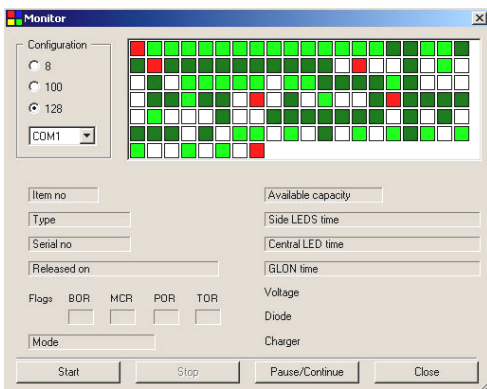


**PPE100**



**➤ Data transmission for charger racks**

Data communication can be made for lamp series RSN-7 and RSN-8. For data communication we use the terminal from the head of the lamp and the middle terminal.



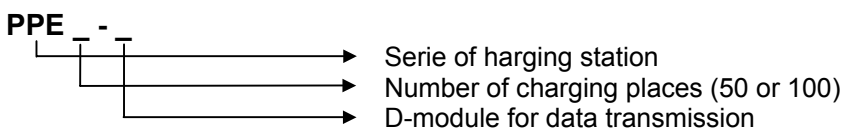
The system can control 8, 100 or 128 lamps from a charger. The square will have the colours:

- RED – the lamp is in DEEP DISCHARGE mode or the number of battery cycles is more than 1500 cycles for NiCd or 800 cycles for NiMh battery or the number of incomplete cycles is 30 or more that 30
- Dark GREEN – the lamp is charging
- Light GREEN – the lamp is 100 % charged
- WHITE – is no lamp in that charging post
- GRAY – the lamp is IDLE if the lamp is in the charger but the charger is OFF

Communication is made in a cycle with a step at 1 second but if the user what to check a lamp in the charger he can right click on that square and that lamp will be verified.

When you move the mouse over one square a small window appear for the lamp with data about the number of cycles and autonomy. If you double click on a square you will obtain the data for the lamp in that charging post.

**➤ Type marking**



**➤ Order example**

