



UP YO YOU s.r.o.
Radlinskeho 2700/2
81107 Bratislava – SK

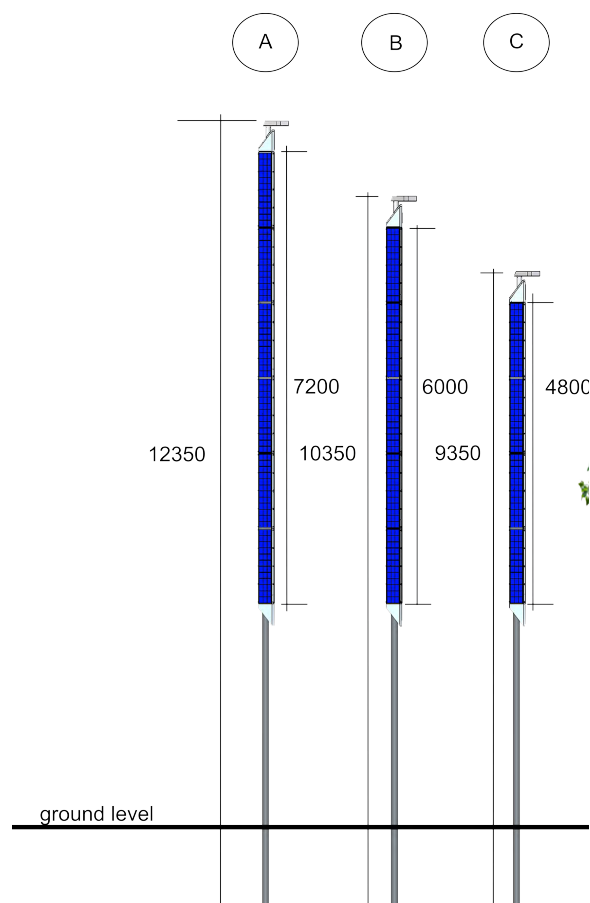
mail: marcoboemio17@gmail.com

UP TO YOU s.r.o. is pleased to introduce you the street lighting “Photovoltaic – Micro Wind” pole **ARKIMEDE** to be introduced in the Slovak and Hungarian market. It is a fully new concept of use of "solar-wind" technologies for the realization of a final product with very high efficiency and use in any environmental condition.



Rome Intercontinental Airport - Fiumicino

DIMENSIONS



ARKIMEDE is designed in 3 different sizes adaptable to any type of use, is supplied complete with:

- LED lighting fixture from 25W to 40W (up to 110W increasing the battery pack)
- 3 faces of Photovoltaic cells (A 900W – B 750W – C 600W)
- Basic Lithium Battery Kit 40Ah

IČO: **51019825**

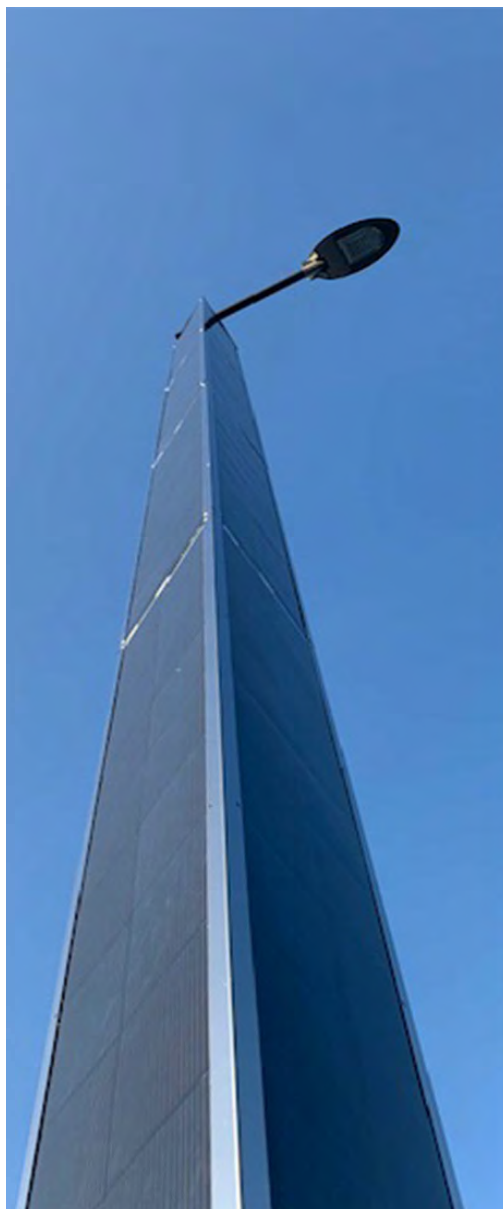
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TECHNICAL DATAS CELLS



1.1.1、 Cell specifications

Item	Specification		Note
Capacity	Nominal	4000mAh	0.5C discharge
	Minimum	3900mAh	0.5C discharge
Alternating Internal Resistance	Maximum	20mΩ	AC 1 kHz
Nominal Voltage		3.2V	
Charging Voltage		3.65±0.05 V	
Standard Charge Conditions (Constant current charging and then constant voltage charging)	Current	0.5C (2000mA)	
	Voltage	3.6V	25°C±2°C
	Cut-off Current	80±5mA	0.02C
Max Charging Current	0°C≤T≤45°C	1C (4000 mA)	
Standard Discharge Conditions (Constant Current Discharge)	Current	0.5C (2000 mA)	25°C±2°C
	Cut-off Voltage	2.5±0.05V	
Max Discharge Current	Suggest 5°C≤T≤45°C	3C (12000mA)	
Working Temperature	Charge	0~45°C	
	Discharge	-20~60°C	
Storage Temperature		-20~60°C	
Weight		≤90g	
Dimension	Height	70.2±0.2mm	
	Diameter	26.2±0.2mm	
Appearance	Without break, scratch, distortion, contamination, leakage, and so on		

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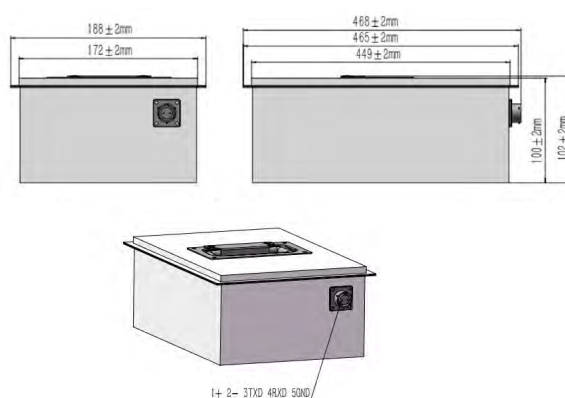
BATTERY PACK

LiFe PO4 – 25.6V48Ah

1.2.1、Battery related parameters

Items	Parameters
Battery Model	IFR-25.6V48Ah (26700-3.2V-4000mAh-8S12P)
Nominal voltage	25.6V
Typical capacity	48±0.5Ah(At 0.2C discharge rate)
Discharge	Working current ≤ 10A
	Cut-off voltage About 20V
Charge	Voltage 28.8±0.2V
	Max charging Current ≤ 10A
	Charge mode CC/CV, please use a special lithium charger
	Charging cut-off current About 480mA
Operation Temperature	Charge 0℃ ~ +45℃
	Discharge -20℃ ~ +60℃
Storage Temperature	-20℃ ~ 60℃
Discharging Inner Resistance	≤ 80mΩ
Protection Function	Overcharge protection, Over discharge protection
Connector	1+ 2- 3TXD 4RXD 5GND
Shell Material	Metal shell
Weight	10.0±0.2 Kg
Size (L*W*H)	(65±2) mm * (188±2) mm * (100±2) mm
Cycle	The cycle life is not less than 2000 times, and the capacity retention rate is ≥ 80%. (Charge according to 3.2 standard charge, put it aside After 0.5~1h; discharge according to the 3.3 standard, put it aside for 0.5~1h, count as 1 cycle).

Size



OPTIONALS:

- ✓ **Micro-Wind energy producer kit;**
- ✓ **MOSS – SMART CITY Managing System**
- ✓ **Enlarged Battery Pack**

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