

ARDUINO SOLAR CHARGE CONTROLLER

1. Arduino Nano **7,50€**
2. P-MOSFET ([IRF 9540](#) x 2 τεμ.) 1,20€ x 2 = **2,40 €**
3. Power diode ([MBR 2045](#) for 10A and IN5402 for 2A) **?**
4. Buck Converter or Voltage Regulator ([LM7805](#)) **1,22 €**
5. Temperature Sensor ([LM35](#)) **1,50 €**
6. Current Sensor **4,05 €**
7. TVS diode ([Amazon](#) / [P6KE36CA](#)) **?**
8. Transistors ([2N3904](#) or 2N2222) **?**
9. Resistors(100k x 2, 20k x 2, 10k x 2, 1k x 2, 330ohm x 5) **?**
10. Ceramic Capacitors (0.1uF x 2) **?**
11. Electrolytic Capacitors (100uF and 10uF) **?**
12. 20x4 I2C LCD **9,90 €**
13. RGB LED ([Amazon](#) / [ebay](#)) **0,20 €**
14. Bi Color LED ([Amazon](#)) **?**
15. Jumper Wires/Wires **3,50€**
16. Header Pins ([Male](#), [Female](#) and [right angle](#)) 1€
17. Heat Sink **2,30 €**
18. Fuse Holder and fuses ([Amazon](#) / [eBay](#)) **?**
19. Push Button ([Amazon](#))
20. Perforated Board **2,48€**
21. Project Enclosure
22. Screw terminals (3x [2pin](#) and 1x [6 pin](#)) **?**
23. Nuts/Screws/Bolts **?**
24. Plastic Base **?**
25. SOLAR PANEL **EXOYME**



Προϋπολογισμός παραπάνω υλικών περίπου 35 - 40€