

Battery Selection

Max current	quntity
4000mA	4
500mA	1

max current

$$4 \times 4000 + 1 \times 500 = 16500\text{mA}$$

average current

$$(4000 + 500) / 2 = 2250\text{mA}$$

battery voltage

12v

battery max current

we will put factor of safety 1.1

$$1.1 \times 16500 = 18150\text{mA}$$

capacity

Duration = Capacity [mAh] / average current [mA]

$$\text{capacity} \geq 0.5 \times 2250 = 1125 \text{ mAh}$$

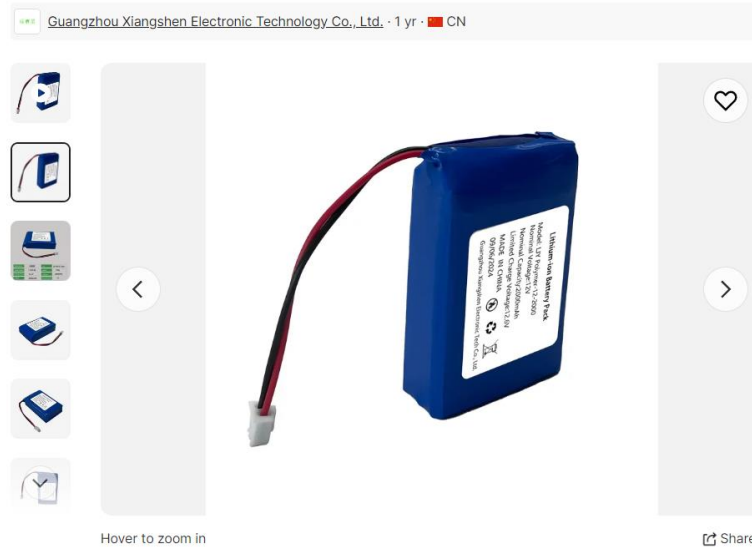
Voltage	Max current	Average current
12v	18000mA	2250mA



A pack of 4 series battery
price : 196 pounds

LiPo 12V 2000mAh Lithium Ion Battery Pack High-Performance Power Tools Consumer
Electronics Home Appliances Camping Batteries

No reviews yet



Price : 264 pounds