

EXERCISE 2.1 - ELECTRIC SCOOTER

Input data:

Battery Nominal Voltage	42	V
Battery Nominal Capacity	12,4	Ah
Battery Nominal Energy	520,8	Wh
Battery internal ESR	3,00E-03	Ω

Starting from SOH: 75% and SOC of 100%

Total weight: 90kg

Gravel road type.

Road with no slope.

Which will be the maximum speed to run with the electric scooter in order to reach 6,3km until the battery completely discharged?

Use the excel tool to make the exercise