Supplementary Table 1 Solar-powered agricultural vehicle specifications

Specification	Value
Vehicle weight	300 kg
Cargo capacity	400 kg
Solar panel capacity	4.5 kWh
Battery type	Lithium iron phosphate
Battery voltage	60 V
Battery capacity	72 Ah
Maximum speed	25 km/h
Wheel type	Wide wheels (field-suitable)
GPS system	Included
Number of integrated tools	7