

Code: SP-KIT-2X50/26/PWM

## SOLAR KIT **SP-KIT-2X50/26/PWM** 225 Wh

The SP-KIT-2X50/26/PWM solar kit consists of 2 solar panels, a controller, a battery and connection cables with connectors. The kit allows you to power small devices such as LED lighting, weather station, garden irrigation controller, etc.



|                                                   |                                                                                                                                                                                                                               |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| In the kit:                                       | <ul style="list-style-type: none"> <li>• 2 solar panels 50 W,</li> <li>• Battery 26 Ah,</li> <li>• Solar Charge Controller - 20 A, PWM,</li> <li>• Connecting cables : 2 x 10 m,</li> <li>• MC4 connectors - 2 pcs</li> </ul> |
| Theoretical daily energy production (for Poland): | 225 Wh                                                                                                                                                                                                                        |
| Guarantee:                                        | 2 years                                                                                                                                                                                                                       |

### Solar Panel:

|                                     |                 |
|-------------------------------------|-----------------|
| Maximum power:                      | 50 W            |
| Maximum Power Current ( $I_{mp}$ ): | 2.99 A          |
| Maximum Power Voltage ( $V_{mp}$ ): | 16.7 V          |
| Short-circuit Current ( $I_{sc}$ ): | 3.51 A          |
| Open-circuit Voltage ( $V_{oc}$ ):  | 19.7 V          |
| Length of the cables:               | 2 x 0.65 m      |
| Cell Type:                          | Monocrystalline |
| Panel Structure:                    | Flexible        |
| Color:                              | White           |
| Weight:                             | 1.73 kg         |

|                       |                   |
|-----------------------|-------------------|
| Dimensions:           | 670 x 515 x 15 mm |
| Manufacturer / Brand: | SolarFam          |

## Solar Charge Controller:

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regulation Type:          | PWM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Rated voltage:            | 12 / 24 V                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Rated current:            | 30 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Input voltage:            | ≤ 23 V for 12 V battery<br>≤ 46 V for 24 V battery                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Battery charging current: | max. 30 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Load Current:             | max. 10 A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Main features:            | <ul style="list-style-type: none"> <li>• 2 x USB power output : 5 V / 2.5 A,</li> <li>• The device is designed to charge only AGM, gel and lead-acid batteries,</li> <li>• LCD display,</li> <li>• LED diodes indicating the device operation status,</li> <li>• Operation modes : <ul style="list-style-type: none"> <li>- 24H - the load is powered all the time</li> <li>- 1H ... 23H - the load is powered for the selected number of hours after sunset</li> <li>- 0H - the load is powered from dusk till dawn</li> </ul> </li> </ul> |
| Weight:                   | 0.13 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Dimensions:               | 134 x 70 x 30 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

## Battery:

|                           |                                                    |
|---------------------------|----------------------------------------------------|
| Battery capacity:         | 26 Ah                                              |
| Rated voltage:            | 12 V                                               |
| Battery charging current: | max. 7.8 A                                         |
| Connector:                | M5 screw                                           |
| Battery type:             | Maintenance-free AGM (Absorbent Glass Mat) battery |
| Battery lifetime:         | 8 ... 10 years                                     |
| Weight:                   | 7.12 kg                                            |
| Dimensions:               | 175 x 125 x 166 mm                                 |
| Manufacturer / Brand:     | V-PRO                                              |

## Connecting cable:

|                  |                                                     |
|------------------|-----------------------------------------------------|
| Inner conductor: | 4.0 mm <sup>2</sup> - Stranded wire Cu - Tin-plated |
| Rated voltage:   | 600 V / 1000 V AC<br>1800 V DC                      |
| Outer coating:   | Ø 5.0 mm - Non-halogen plastic                      |

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Main features: | <ul style="list-style-type: none"> <li>• UV radiation resistance</li> <li>• Ozone resistance</li> <li>• Hydrolysis resistance</li> <li>• Resistant to oils and aggressive chemicals</li> <li>• Flame resistance (according to VDE 0482-332-2, DIN EN 60332-1)</li> <li>• The insulating layer is made of halogen-free material, which does not produce aggressive fumes during combustion</li> <li>• Increased mechanical strength of the outer coating</li> <li>• Expected lifetime : 25 years</li> </ul> |
|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## MC4 connector:

|                        |                              |
|------------------------|------------------------------|
| Connector type:        | MC4 - set (M + F) / Crimping |
| Rated voltage:         | 1000 V                       |
| Rated current:         | 30 A                         |
| Material:              | Plastic + Metal              |
| Color:                 | Black                        |
| Application:           | Solar installations          |
| "Index of Protection": | IP67                         |
| Flammability class:    | UL94-VO                      |
| Weight:                | 0.022 kg                     |
| Dimensions:            | Ø 19 x 87 mm                 |

