

# W-HPS | 3-6K

Single-Phase Grid-Tied with 2 MPPTs



## Features



10 Years  
Warranty



Aluminum Alloy  
Die Casting



Max. DC Overload  
40%



Peak Efficiency  
98%



Easy to  
Install and Service

## Block Diagram



| MODELLO                            | W-HPS-3K                   | W-HPS-3.68K | W-HPS-4K | W-HPS-5K | W-HPS-6K |
|------------------------------------|----------------------------|-------------|----------|----------|----------|
| <b>INPUT / DC</b>                  |                            |             |          |          |          |
| Max. PV Power / Wp                 | 5152                       | 5152        | 6160     | 7000     | 7800     |
| Max. Input Voltage / V             | 600                        |             |          |          |          |
| MPP Voltage Range / V              | 80-520                     | 80-520      | 80-520   | 80-520   | 80-550   |
| Min. Input Voltage / V             | 76                         |             |          |          |          |
| Start Up Voltage / V               | 125                        |             |          |          |          |
| Nominal DC-Input Voltage / V       | 360                        | 360         | 360      | 360      | 360      |
| Max. Input Current / A             | 13                         |             |          |          |          |
| Max. DC Short Circuit Current / A  | 15                         |             |          |          |          |
| No. of Independent MPPT Inputs     | 2                          |             |          |          |          |
| No. of PV Strings per MPPT         | 1                          |             |          |          |          |
| <b>OUTPUT / AC</b>                 |                            |             |          |          |          |
| Rated Power / W                    | 3000                       | 3680        | 4000     | 5000     | 6000     |
| Max. Apparent AC Power / VA        | 3300                       | 3680        | 4400     | 5000     | 6000     |
| Rated Grid Voltage / Vac           | 220/230/240                |             |          |          |          |
| Rated Power Frequency / Hz         | 50/60                      |             |          |          |          |
| Max. Output Current / A            | 15                         | 16          | 20       | 23       | 27,3     |
| Cosφ                               | 0.8ind to 0.8cap           |             |          |          |          |
| THDi @ Rated Power                 | <3%                        |             |          |          |          |
| <b>EFFICIENCY</b>                  |                            |             |          |          |          |
| Max. Efficiency                    | 97.8%                      | 97.9%       | 97.9%    | 97.9%    | 98.0%    |
| Med. Efficiency                    | 97.3%                      | 97.4%       | 97.4%    | 97.4%    | 97.5%    |
| <b>PROTECTION FUNCTION</b>         |                            |             |          |          |          |
| Anti-Islanding Protection          | Integrated                 |             |          |          |          |
| Input Reverse Polarity Protection  | Integrated                 |             |          |          |          |
| Insulation Resistance Detection    | Integrated                 |             |          |          |          |
| Residual Current Monitoring        | Integrated                 |             |          |          |          |
| Output Over Current Protection     | Integrated                 |             |          |          |          |
| Output Short Circuit Protection    | Integrated                 |             |          |          |          |
| Output Over Voltage Protection     | II (DC), III (AC)          |             |          |          |          |
| Surge Protection                   | DC: Optional / AC: Type II |             |          |          |          |
| <b>GENERAL DATA</b>                |                            |             |          |          |          |
| Dimensions (W*H*D) / mm            | 395*328*154                |             |          |          |          |
| Weight / kg                        | 9.8                        | 9.8         | 9.8      | 9.8      | 10       |
| Noise Emission (Typical) / dB(A)   | <20                        |             |          |          |          |
| User Interface                     | LCD & LED or LED           |             |          |          |          |
| DC Connection Type                 | MC4                        |             |          |          |          |
| AC Connection Type                 | Plug-in Connector Included |             |          |          |          |
| Communication                      | Stick Wi-Fi Included       |             |          |          |          |
| Cooling Method                     | Fanless                    |             |          |          |          |
| Operating Ambient Temperature / °C | -25 - +60                  |             |          |          |          |
| Allowable Relative Humidity Range  | 0% to 100%                 |             |          |          |          |
| Max. Operating Altitude / m        | 3000 (>3000 Derating)      |             |          |          |          |
| Degree of Protection (IEC 60529)   | IP65                       |             |          |          |          |
| Climatic Category (IEC 60721-3-4)  | 4K4H                       |             |          |          |          |
| Isolation Method                   | Transformerless            |             |          |          |          |
| Stand-by Consumption / W           | <1                         |             |          |          |          |