

energizing  
future



# HPS

3.68-6.5K



Aluminum Alloy  
Die Casting



MES + FCT + CRM  
Infrastructure



Max. DC Overload  
40%



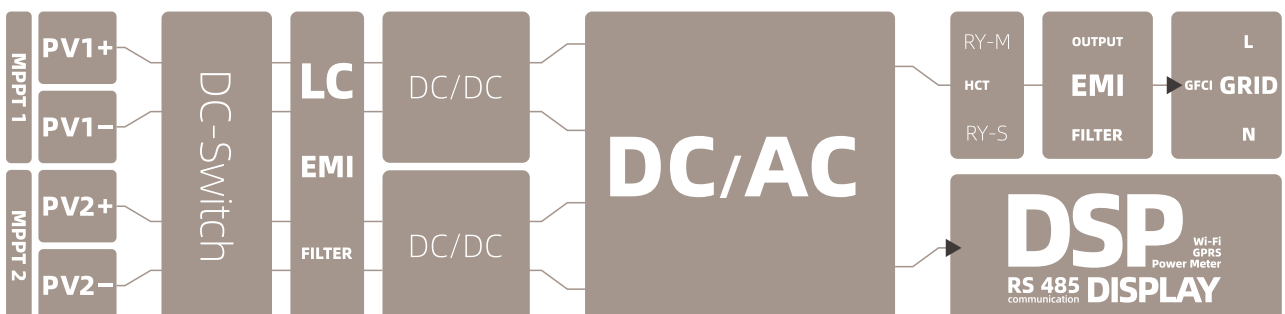
Peak Efficiency  
98%



Easy to  
Install and Service

Features

Block Diagram



| MODEL                                | HPS-3680                   | HPS-4000 | HPS-5000 | HPS-6000 | HPS-6500 |
|--------------------------------------|----------------------------|----------|----------|----------|----------|
| <b>INPUT / DC</b>                    |                            |          |          |          |          |
| Max. PV Power / W <sub>p</sub>       | 5152                       | 6160     | 7000     | 7800     | 8125     |
| Max. Input Voltage / V               | 600                        |          |          |          |          |
| MPP Voltage Range / V                | 80 - 520                   |          |          |          | 80 - 550 |
| Start Up Voltage / V                 | 70                         |          |          |          |          |
| Nominal DC-Input Voltage / V         | 360                        |          |          |          |          |
| Max. Input Current / A               | 12/12                      |          |          |          |          |
| Max. DC Short Circuit Current / A    | 15/15                      |          |          |          |          |
| No. of Independent MPPT Inputs       | 2                          |          |          |          |          |
| No. of PV Strings per MPPT           | 1                          |          |          |          |          |
| <b>OUTPUT / AC</b>                   |                            |          |          |          |          |
| Rated Power / W                      | 3680                       | 4000     | 5000     | 6000     | 6500     |
| Max. Apparent AC Power / VA          | 3680                       | 4400     | 5000     | 6000     | 6600     |
| Rated Grid Voltage / V <sub>ac</sub> | 220/230/240                |          |          |          |          |
| Rated Power Frequency / Hz           | 50/60                      |          |          |          |          |
| Max. Output Current / A              | 16                         | 20       | 23       | 27.3     | 29.6     |
| Adjustable Displacement Power Factor | 0.8ind to 0.8cap           |          |          |          |          |
| THDi at Rated Power                  | <3%                        |          |          |          |          |
| <b>EFFICIENCY</b>                    |                            |          |          |          |          |
| Max. Efficiency                      | 97.9%                      | 97.9%    | 97.9%    | 98.0%    | 98.0%    |
| Euro Efficiency                      | 97.4%                      | 97.4%    | 97.4%    | 97.5%    | 97.5%    |
| <b>PROTECTION</b>                    |                            |          |          |          |          |
| Anti-Islanding Protection            | Integrated                 |          |          |          |          |
| Input Reverse Polarity Protection    | Integrated                 |          |          |          |          |
| Insulation Resistor Detection        | Integrated                 |          |          |          |          |
| Residual Current Monitoring Unit     | Integrated                 |          |          |          |          |
| Output Over Current Protection       | Integrated                 |          |          |          |          |
| Output Short Circuit Protection      | Integrated                 |          |          |          |          |
| Output Over Voltage Protection       | Integrated                 |          |          |          |          |
| Surge Protection                     | II (DC), III (AC)          |          |          |          |          |
| <b>GENERAL DATA</b>                  |                            |          |          |          |          |
| Dimensions (W*H*D) / mm              | 395*328*154                |          |          |          |          |
| Weight / kg                          | 9.5                        |          |          |          |          |
| Noise Emission (typical) / dB (A)    | <20                        |          |          |          |          |
| User Interface                       | LCD&LED or LED             |          |          |          |          |
| DC Connection Type                   | MC4 (SUNCLIX, H4 Optional) |          |          |          |          |
| AC Connection Type                   | Plug-in Connector          |          |          |          |          |
| Communication                        | RS485/WiFi/GPRS (Optional) |          |          |          |          |
| Cooling Method                       | Natural Cooling            |          |          |          |          |
| Operating Ambient Temperature / °C   | -25°C - +60°C              |          |          |          |          |
| Relative Humidity                    | 0% - 100%                  |          |          |          |          |
| Max. Operating Altitude / m          | 3000 (>3000 Derating)      |          |          |          |          |
| Degree of Protection (IEC 60529)     | IP65                       |          |          |          |          |
| Climatic Category (IEC 60721-3-4)    | 4K4H                       |          |          |          |          |
| Isolation Method                     | Transformerless            |          |          |          |          |
| Power Loss On Night Mode / W         | <1                         |          |          |          |          |