

Three Phase  
4MPPTs

# HPT

30-50K

# EVERYTHING<sup>3</sup>

The Essential

ENERGIZING FUTURE

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FEATURES



Peak Efficiency

98.8 %



Max. DC Overload

50 %

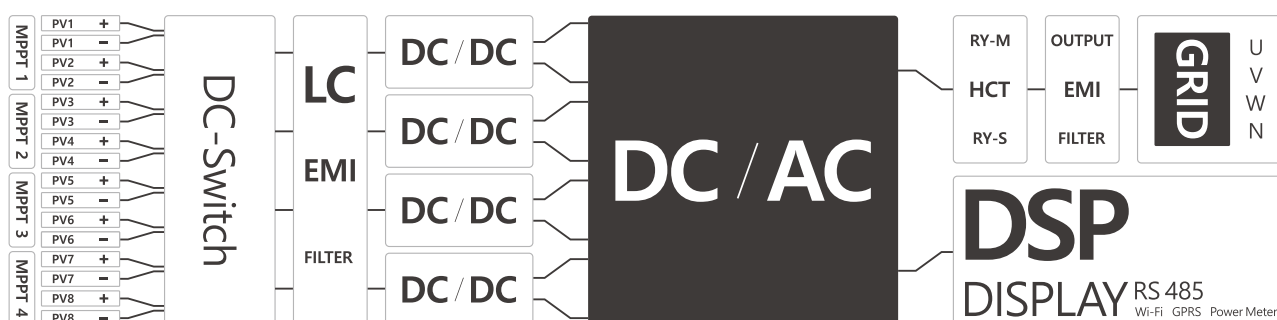


MES + FCT + CRM  
Infrastructure



Easy to  
Install and Service

BLOCK DIAGRAM



| MODEL                                  | HPT-30K                          | HPT-33K   | HPT-36K   | HPT-40K     | HPT-50K   |
|----------------------------------------|----------------------------------|-----------|-----------|-------------|-----------|
| INPUT / DC                             |                                  |           |           |             |           |
| Max. PV Power / Wp                     | 49500                            | 49500     | 54000     | 60000       | 65000     |
| Max. Input Voltage / V                 | 1100                             |           |           |             |           |
| MPP Voltage Range / V                  | 150 - 1000                       |           |           |             |           |
| Full Load MPP Voltage Range / V        | 330 - 900                        | 330 - 900 | 380 - 900 | 430 - 900   | 500 - 900 |
| Min. DC Voltage / Start Up Voltage / V | 150/180                          |           |           |             |           |
| Nominal DC-Input Voltage / V           | 620                              |           |           |             |           |
| Max. Input Current / A                 | 30/30/30                         |           |           | 30/30/30/30 |           |
| Max. DC Short Circuit Current / A      | 45/45/45                         |           |           | 45/45/45/45 |           |
| No. of Independent MPPT Inputs         | 3                                |           |           | 4           |           |
| No. of PV Strings per MPPT             | 2                                |           |           |             |           |
| OUTPUT / AC                            |                                  |           |           |             |           |
| Rated Power / W                        | 30000                            | 33000     | 36000     | 40000       | 50000     |
| Max. Apparent AC Power / VA            | 33000                            | 36300     | 39600     | 44000       | 55000     |
| Rated Grid Voltage / Vac               | 380/400 3 / 3L-N-PE or 3 / 3L-PE |           |           |             |           |
| Rated Power Frequency / Hz             | 50/60                            |           |           |             |           |
| Max. Output Current / A                | 50                               | 55        | 60        | 66.7        | 80        |
| Power Factor                           | 0.8ind to 0.8cap                 |           |           |             |           |
| THDi @ Rated Power                     | <3%                              |           |           |             |           |
| EFFICIENCY                             |                                  |           |           |             |           |
| Max. Efficiency                        | 98.7%                            |           |           |             | 98.8%     |
| Euro Efficiency                        | 98.3%                            |           |           |             | 98.4%     |
| PROTECTION                             |                                  |           |           |             |           |
| 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                       |           |           |             |           |
| Over Voltage Protection                | II (DC), III (AC)                |           |           |             |           |
| Surge Protection                       | DC: Type II / AC: Type II        |           |           |             |           |
| GENERAL DATA                           |                                  |           |           |             |           |
| Dimensions (W*H*D) / mm                | 580*435*242                      |           |           |             |           |
| Weight / kg                            | 38                               |           |           | 40          |           |
| User Interface                         | LCD&LED or LED                   |           |           |             |           |
| DC Connection Type                     | MC4 (D4, SUNCLIX, H4 Optional)   |           |           |             |           |
| AC Connection Type                     | Plug-in Connector                |           |           |             |           |
| Communication                          | RS485/WiFi/GPRS (Optional)       |           |           |             |           |
| Cooling Method                         | Smart Fan cooling                |           |           |             |           |
| Operating Ambient Temperature / °C     | -25°C - +60°C                    |           |           |             |           |
| Relative Humidity                      | 0% - 100%                        |           |           |             |           |
| Max. Operating Altitude / m            | 2000 (>2000 Derating)            |           |           |             |           |
| Protection Class (IEC 60529)           | IP65                             |           |           |             |           |
| Climatic Category (IEC 60721-3-4)      | 4K4H                             |           |           |             |           |
| Topology                               | Transformerless                  |           |           |             |           |
| Night Consumption / W                  | <1                               |           |           |             |           |