

# Storage+

SINGLE PHASE HYBRID  
3-6K

**HYPONTECH**

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## HiS



Peak Efficiency  
**97.9 %**



Max. DC Overload  
**60 %**



Aluminum Alloy  
Die Casting



MES + FCT + CRM  
Infrastructure



Easy to  
Install and Service



Energy  
Management

**INPUT / DC**

Max. PV Power / Wp	<b>4950</b>	<b>5520</b>	<b>7500</b>	<b>9600</b>
Max. Input Voltage / V	<b>600</b>			
MPP Voltage Range / V	<b>80-520</b>			
Min. Input Voltage / V	<b>70</b>			
Nominal DC-Input Voltage / V	<b>360</b>			
Max. Input Current / A	<b>13/13</b>			
Max. DC Short Circuit Current / A	<b>20/20</b>			
No. of Independent MPPT Inputs	<b>2</b>			
No. of PV Strings per MPPT	<b>1</b>			

**AC OUTPUT / INPUT**

Rated Power to grid / W	<b>3000</b>	<b>3680</b>	<b>5000</b>	<b>6000</b>
Max. Apparent AC Power to grid / VA	<b>3300</b>	<b>3680</b>	<b>5500</b>	<b>6600</b>
Max. Apparent AC Power from grid / VA	<b>6600</b>	<b>7360</b>	<b>8500</b>	<b>10000</b>
Rated Grid Voltage / Vac	<b>220/230/240</b>			
Grid Connection	<b>L/N/PE</b>			
Rated Power Frequency / Hz	<b>50/60</b>			
Max. Output Current to grid / A	<b>15.0</b>	<b>16.0</b>	<b>23.0</b>	<b>27.3</b>
Max. AC Current from grid / A	<b>30.0</b>	<b>32.0</b>	<b>36.0</b>	<b>40.0</b>
Power Factor	<b>0.8ind to 0.8cap</b>			
THDi @ Rated Power	<b>&lt;3%</b>			

**AC OUTPUT (BACK-UP)**

Rated Power / W	<b>3300</b>	<b>3680</b>	<b>5000</b>	<b>6000</b>
Peak Apparent Output Power @60° / VA	<b>3960</b>	<b>4416</b>	<b>6000</b>	<b>7200</b>
Rated Power Frequency / Hz	<b>50/60</b>			
Max. Output Current / A	<b>15.0</b>	<b>16.0</b>	<b>23.0</b>	<b>27.3</b>
Automatic Switch Time / ms	<b>&lt;10</b>			
Nominal Output Voltage / V	<b>230</b>			
Nominal Output Frequency / Hz	<b>50/60</b>			
THDv @ Linear Load	<b>&lt;3%</b>			

**BATTERY INPUT**

Battery Type	<b>Li-ion</b>
Battery Voltage Range / V	<b>80-480</b>
Start Up Voltage / V	<b>70</b>
Max. Charging/Discharging Current / A	<b>25/25</b>
Charging Strategy for Li-Ion Battery	<b>Auto-adaption to BMS</b>

**EFFICIENCY**

PV Max. Efficiency	<b>97.9%</b>
PV Euro. Efficiency	<b>97.4%</b>
PV Max. MPPT Efficiency	<b>99.9%</b>
Max. Charging Efficiency @ PV->Battery	<b>98.0%</b>
Max. Charge/Discharge Efficiency @ Battery <->Load	<b>97.0%</b>

**PROTECTION FUNCTION**

Anti-Islanding Protection	<b>Integrated</b>	Residual Current Monitoring	<b>Integrated</b>	Over Voltage Protection	<b>II (DC), III (AC)</b>
PV Input Reverse Polarity Protection	<b>Integrated</b>	Output Over Current Protection	<b>Integrated</b>	Surge Protection	<b>DC: Optional / AC: Type II</b>
Insulation Resistance Detection	<b>Integrated</b>	Output Short Circuit Protection	<b>Integrated</b>	Battery Reverse Polarity Protection	<b>Integrated</b>

**GENERAL DATA**

Dimensions (W*H*D) / mm	<b>425*351*160</b>	AC Connection Type	<b>Plug-in Connector</b>	Relative Humidity	<b>0% to 100%</b>
Weight / kg	<b>13.8</b>	Communication with Cloud	<b>WiFi/4G (optional)</b>	Max. Operating Altitude / m	<b>3000 (&gt;3000 Derating)</b>
Noise Emission (Typical) / dB(A)	<b>&lt;25</b>	Communication with BMS	<b>CAN/RS485</b>	Protection Class (IEC 60529)	<b>IP65</b>
User Interface	<b>LED&amp;LCD</b>	Communication with Power Meter	<b>RS485</b>	Climatic Category (IEC 60721-3-4)	<b>4K4H</b>
DC Connection Type	<b>MC4</b>	Cooling Method	<b>Natural Cooling</b>	Topology	<b>Transformerless</b>
Battery Connection Type	<b>SUNCLIX</b>	Operating Ambient Temperature / C°	<b>-25 ~ +60</b>	Night Consumption / W	<b>&lt;5</b>