

Single Phase  
Hybird

# HHS

3-6K

# STORAGE<sup>+</sup>

Sustainable Freedom

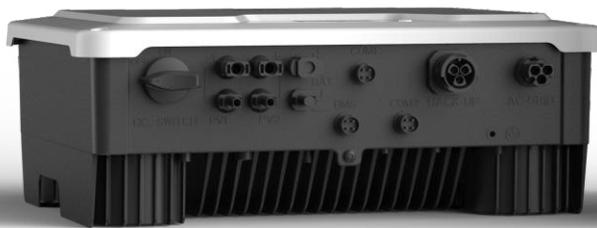
ENERGIZING FUTURE

# HYPONTECH

www.  
hypontech.  
com



FOLLOW US  
@Hypontech Solar



FEATURES



Peak Efficiency

98 %



Max. DC Overload

40 %



Aluminum Alloy  
Die Casting



MES + FCT + CRM  
Infrastructure

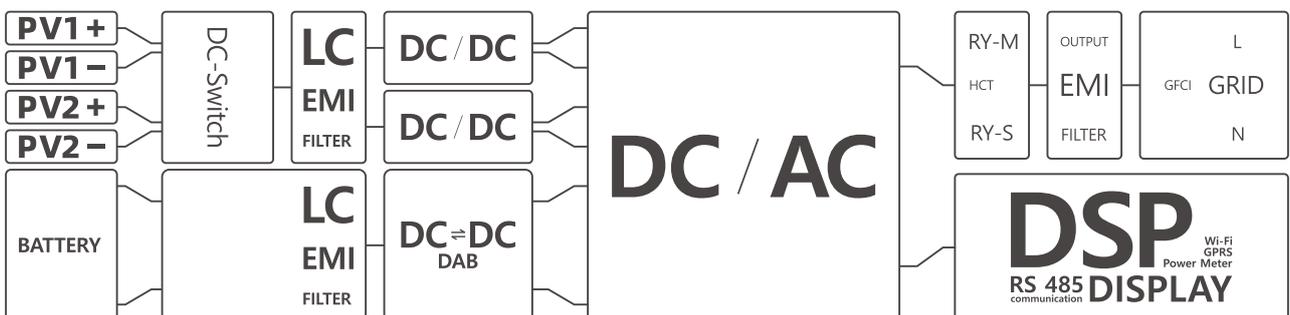


Easy to  
Install and Service



Energy  
Management

BLOCK DIAGRAM



MODEL	HHS 3000	HHS 3680	HHS 5000	HHS 6000
HYBRID INVERTER				

### INPUT / DC

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

### BATTERY INPUT

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

### AC OUTPUT/INPUT

Rated Power to Grid / W	3000	3680	5000	6000
Max. Apparent AC Power to Grid / VA	3300	3680	5000	6600
Max. Apparent AC Power from Grid / VA	6600	7360	8500	10000
Rated Grid Voltage / Vac	220/230/240			
Grid Connection	L-N-PE			
Rated Power Frequency / Hz	50/60			
Max. Output Current to Grid / A	15	16	23	27.3
Max. AC Current from Grid / A	30	32	36	40
Power Factor	0.8ind to 0.8cap			
THDi @ Rated Power	<3%			

### AC OUTPUT (BACK-UP)

Rated Power / W	3300	3680	5000	6000
Peak Apparent Output Power @60" / VA	3960	4416	6000	7200
Rated Power Frequency / Hz	50/60			
Max. Output Current / A	15	16	23	27.3
Automatic Switch Time / ms	<10			
Nominal Output Voltage / V	230			
Nominal Output Frequency / Hz	50/60			
THDv @ Linear Load	<3%			

### EFFICIENCY

PV Max. Efficiency	97.9%
PV Euro. Efficiency	97.4%
PV Max. MPPT Efficiency	99.9%
Max. Charging Efficiency from PV to Battery	98.0%
Max. Charge/Discharge Efficiency of Battery from/to Load	97%

### PROTECTION FUNCTION

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

### GENERAL DATA

Dimensions (W*H*D) / mm	425*351*160
Weight / kg	13.8
Noise Emission (typical) / dB (A)	<25
User Interface	LED&LCD
DC Connection Type	MC4 (H4 Optional)
Battery Connection Type	SUNCLIX
AC Connection Type	Plug-in Connector
Communication with Cloud	WiFi/4G (Optional)
Communication with BMS	CAN, RS485
Communication with Power Meter	RS485
Cooling Method	Natural Cooling
Operating Ambient Temperature / °C	-25 ~ +60
Relative Humidity	0% - 100%
Max. Operating Altitude / m	3000 (>3000 Derating)
Degree of Protection (IEC 60529)	IP65
Climatic Category (IEC 60721-3-4)	4K4H
Topology	Transformerless
Night Consumption / W	<5