



Active Safety

AI powered active arcing protection



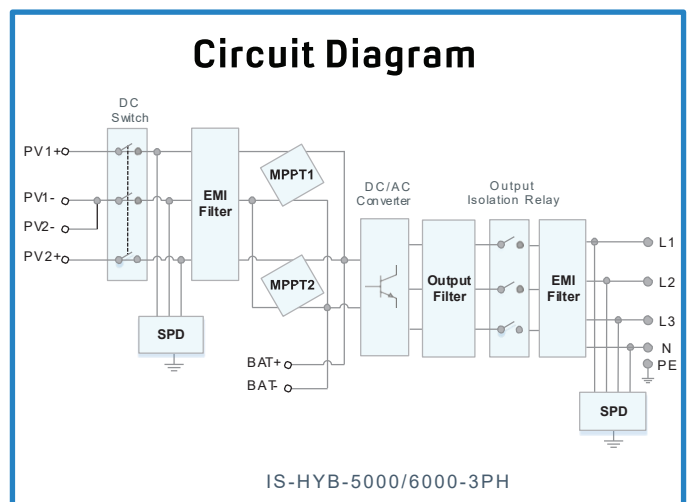
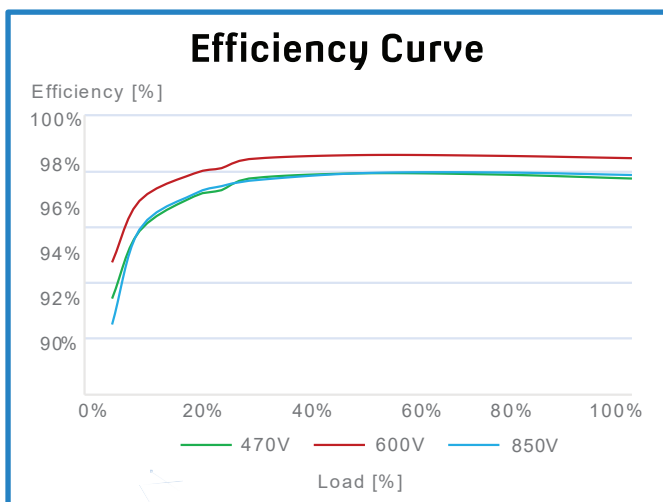
Higher Yields

More energy with full optimiser



Flexible Communication

WLAN, fast ethernet, 4G communication support



Technical Specification

Technical Specification	IS-HYB-5000-3PH	IS-HYB-6000-3PH
Efficiency		
Max. efficiency	98.4%	98.4%
European weighted efficiency	97.5%	97.7%
Input (PV)		
Recommended max. PV power	7,500 Wp	9,000 Wp
Max. input voltage	1,100 V	
Operating voltage range	140V ~ 980V	
Start-up voltage	200V	
Rated input voltage	600V	
Max. input current per MPPT	13.5A	
Max. short-circuit current	19.5A	
Number of MPP trackers	2	
Max. number of inputs	2	
Input (DC Battery)		
Compatible Battery	iStore ESS Battery 5kWh - 30kWh	
Operating voltage range	600V ~ 980V	
Max. operating current	16.7 A	
Max. charge Power	10,000W	
Max. discharge Power	5,000W	6,000 W
Max. number of connected batteries	2	
Output		
Grid connection	Three phase	
Rated output power	5,000W	6,000W
Rated AC apparent power	5,000 VA	6,000VA
Max. apparent power	5,500 VA	6,600VA
Rated output voltage	230 Vac/ 400Vac, 3W/ N+PE	
Rated AC grid frequency	50 Hz/ 60Hz	
Max. output current	8.5A	10.1A
Adjustable power factor	0.8 leading, 0.8 lagging	
Max. total harmonic distortion	≤ 3%	
Backup power output	Yes (via Backup Box ³)	
Protection & Features		
Anti-Islanding protection	Yes	
DC reverse polarity protection	Yes	
Insulation monitoring	Yes	
DC surge protection	Yes, compatible with TYPE II protection class according to EN/IE C61643 - 11	
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IE C61643 - 11	
Residual current monitoring	Yes	
AC overcurrent protection	Yes	
AC short-circuit protection	Yes	
AC overvoltage protection	Yes	
Ripple receiver control	Yes	
Arc fault protection	Yes	
Battery reverse charging from grid	Yes	
Integrated PID recovery ⁴	Yes	
Input-side disconnection device	Yes	
General Data		
Operating temperature range	-25 ~ +60 °C (Derating above 45 °C @ Rated output power)	
Relative operating humidity	0 % RH ~ 100 % RH	
Operating altitude	0 ~ 4,000m (Derating above 2000 m)	
Cooling	Natural convection	
Display	LED Indicators; Integrated WLAN + iStorehome APP	
Communication	RS485, WLAN/ Ethernet via IS-Dongle-WLAN	
Weight (incl. mounting bracket)	17.5 kg	
Dimension (incl. mounting bracket)	525 x 470 x 166 mm	
Degree of protection	IP65	
Country of Manufacture	China	
Optimizer Compatibility		
Compatible optimizer	SUN2000 - 600W - P	
Standard Compliance (more available upon request)		
Safety	IEC 62109-1, IEC 62109 -2	
Grid connection standards	AS/NZS 4777.2 2020	

¹ The max. input voltage is the upper limit of the DC voltage. Any higher input DC voltage would probably damage inverter. Please limit input voltage to maximum 600V dc according to AS 4777.12016

² Any DC input voltage beyond the operating voltage range may result in inverter improper operating.

³ Please consult the suppliers for the backup solution.

⁴ IS-HYB-5000/6000-3PH raises potential between PV and ground to above zero through integrated PID recovery function to recover module degradation from PID.

⁵ Please consult the suppliers for the specifications of the optimizer pairing.