



Active Safety

AI powered
active arcing protection



Higher Yields

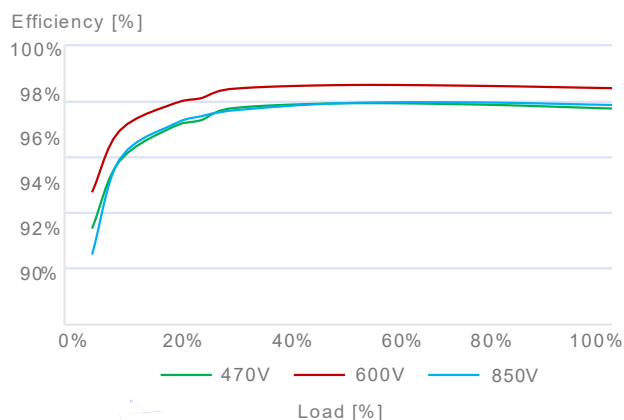
Up to 30% more energy
with full optimiser



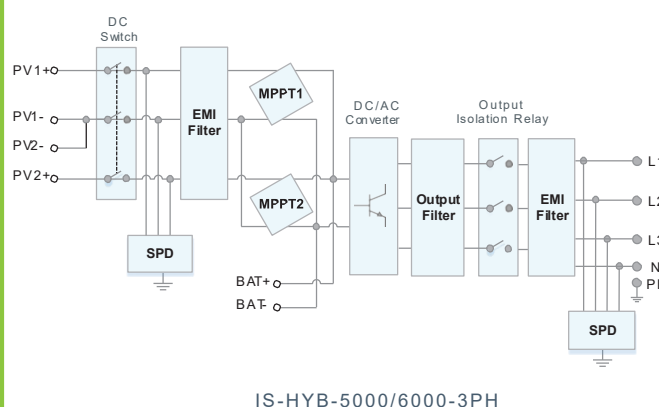
Flexible Communication

WLAN, fast ethernet, 4G
communication support

Efficiency Curve



Circuit Diagram



Technical Specification

Technical Specification		IS-HYB-5000-3PH	IS-HYB-6000-3PH
Efficiency			
Max. efficiency	98.4%		98.6%
European weighted efficiency	97.5%		97.7%
Input (PV)			
Recommended max. PV power ¹	7,500 Wp		9,000 Wp
Max. input voltage ²	1,100 V		
Operating voltage range ³	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 Smart String ESS 5kWh - 30kWh		
Max number of connected battery	2		
Operating voltage range	600V ~ 980V		
Max operating current	16.7 A		
Max charge Power	10,000W		
Max discharge Power	5,000W	6,000 W	
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	10.1 A	
Adjustable power factor	0.8 leading, 0.8 lagging		
Max. total harmonic distortion	≤ 3%		
Backup power output	Yes (via Backup Box-B 1)		
Features & Protections			
Input-side disconnection device	Yes		
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		
Arc fault protection	Yes		
Ripple receiver control	Yes		
Integrated PID recovery ⁴	Yes		
Battery reverse charging from grid	Yes		
General Data			
Operating temperature range	-25 ~ +60°C (-13°F ~ 140°F)		
Relative operating humidity	0 %RH ~ 100 %RH		
Operating altitude	0 ~ 4,000m (13,123ft.) (Derating above 2000 m)		
Cooling	Natural convection		
Display	LED Indicators; Integrated WLAN + iStore Solar App		
Communication	RS485; WLAN/Ethernet via Smart Dongle - WLAN-FE; / 4G / 3G / 2G via Smart Dongle - 4G (Optional)		
Weight (incl. mounting bracket)	17 kg (37.5 lb)		
Dimension (incl. mounting bracket)	525 x 470 x 146.5mm (20.7 x 18.5 x 5.8inch)		
Degree of protection	IP65		
Country of Manufacture	China		
Standard Compliance (more available upon request)			
Certificate	EN/IEC 62109-1 EN/IEC 62109-2 IEC62116		
Grid connection standards	AS/NZS 4777.2 2020		

*1 Inverter max input PV power is 20,000 Wp when long strings are designed.

*2 The maximum 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

*3 Any DC input voltage beyond the operating voltage range may result in inverter im proper operating.

*4 raises potential between PV - and ground to above zero through integrated PID recovery function to recover module degradation from PID . Supported module types include: P-type (mono, poly).