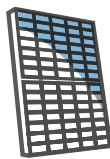




Active Safety

AFCI Active Arcing Protection



Shade Mitigation

Higher yield with MPPT multi-peak scanning



AC + DC Output

up to 15kW combined*³



EXTENDED WARRANTY



10 year warranty
(materials & workmanship)



FREE 2 year parts warranty extension

Technical Specifications

Model	IS-HYB-5000HC-1PH	IS-HYB-8000-1PH	IS-HYB-10000-1PH
Series: IS-HYB-1PH		Efficiency	
Max. efficiency	98.1%		
European weighted efficiency	97.5 %		
		Input (PV)	
Max. input voltage ^{*1}	600 V		
Max. PV power ^{*2}	12,500W ^{*2}	20,000W ^{*2}	25,000W ^{*2}
Start-up up voltage	50 V		
MPPT operating voltage range	40 - 560 V		
Rated input voltage	360 V		
Max. input current per MPPT	16 A		
Max. short-circuit current	20 A		
Number of MPP trackers	3		
Max. number of inputs	3		
		Input (DC Battery)	
Compatible Battery	iStore ESS Battery 5 kWh - 30 kWh		
Cell technology	Lithium-iron phosphate (LiFePO4)		
Operating voltage range	350 ~ 600 Vdc		
Max. operating current	25 A		
Max. charge power	5,000W	8,000W	10,000 W
Max. discharge power	4,999W	8,000W	9,999 W
Max. number of connected battery stacks	2		
		Output (On Grid)	
Grid connection	Single phase (1)		
Rated output power	4,999W	8,000W	9,999 W
Rated AC Apparent power	4,999VA	8,000VA	9,999VA
Rated output voltage	220 Vac 230 Vac 240 Vac, L N PE		
Rated AC grid frequency	50 Hz / 60 Hz		
Max. output current	22.72A	40.0A	45.5A
Rated output current	22.72A/220V, 21.73A/230V, 20.83A/230V	36.4A/220V, 34.8A/230V, 33.3A/240V	45.5A/220V, 43.5A/230V, 41.7A/240V
Adjustable power factor	0.8 leading ... 0.8 lagging		
Max. total harmonic distortion	≤ 3 %		
		Protection & Feature	
Overvoltage category:	DC II/AC III		
Anti-Islanding protection	Yes via Frequency Shift in accordance with AS/NZS 4777.2:2020		
Backup Functionality ^{*3}	Yes		
DC reverse polarity protection	Yes		
Insulation monitoring	Yes		
DC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643 -11		
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643 -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		
Rated input current (AC) ^{*4}	21.7A	21.7A	21.7A
Over-heat (protection)	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 ~ 4,000 m (Derating above 2,000 m)		
Cooling	Natural Convection	Smart Air Cooling	Smart Air Cooling
Display	LED indicators; integrated WLAN + iStorehome APP		
Communication	RS485, WLAN/ Ethernet via IS-Dongle-WLAN		
Weight	15 kg		
Dimension (incl. mounting bracket)	425 mm x 376.5 mm x 150 mm		
Degree of protection	IP66		
Protective class	Class I		
Topology	Transformerless		
Country of manufacture	China		
		Standard Compliance (more available upon request)	
Safety	IEC 62109-1, IEC 62109 -2		
Grid connection standards	AS/NZS 4777.2:2020		

*1. The maximum input voltage is the upper limit of the DC voltage. Any higher input DC voltage would likely damage inverter.

*2. If the string design is within the inverter's max voltage and current input limits, and a compatible DC-coupled battery is connected. Please refer to oversizing guidelines document.

*3 Huawei model SmartGuard-63A-AUS0 1PH backup box used during testing.

*4 The reverse charging capability is limited. The software limit for reverse charging power is set to 4999/5000 W. Therefore, the current rating is the same per model