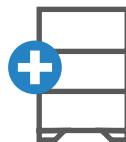


IS-HYB-12000-3PH
IS-HYB-17000-3PH
IS-HYB-20000-3PH



Active Safety
AFCI Active Arcing
Protection



Battery Ready
Compatible with the
iStore Smart Battery



2x Power Battery Ready
5KW AC Output plus
5KW Battery Charge



**EXTENDED
WARRANTY**

✓ **10 year warranty**
(materials & workmanship)

✓ **FREE 2 year
warranty extension**
(parts only)

Technical Specifications

Technical Specification ¹	IS-HYB-12000-3PH		IS-HYB-17000-3PH	IS-HYB-20000-3PH
Efficiency				
Max. efficiency	98.4%		98.4%	98.4%
European weighted efficiency	97.9%		98.1%	98.1%
DC Input				
Recommended max. PV power	18,000 Wp		22,500 Wp	30,000 Wp
Max. input voltage ²			1,100 V	
Max. input current per MPPT	30 A (two strings) / 20 A (single string)			
Max. short-circuit current	40 A			
Start-up voltage	200 V			
MPPT operating voltage range ³	200 V ~ 1,000 V			
Full-load MPPT voltage range	370 V ~ 800 V		440 V ~ 800 V	480 V ~ 800 V
Rated input voltage	600 V			
Max. number of inputs	4			
Number of MPP trackers	2			
Smart String Energy Storage System Terminal				
Compatible Smart String ESS	IS-BATT-5000/10000/15000-S0			
Number of terminals	2			
Max. charging power	21 kW (Single string) / 25 kW (Two strings)			
Max. discharge power	13.2 kW		18.7 kW	22.0 kW
Max. operating current	26.25 A (per string)			
Operating voltage range	600 V ~ 980 V			
Output				
Rated output power	12,000 W		17,000 W	20,000 W
Max. apparent power	13,200 VA		18,700 VA	22,000 VA
Max. active power (cosφ = 1)	13,200 W		18,700 W	22,000 W
Rated output voltage	220 Vac / 380 Vac, 230 Vac / 400 Vac, 240 Vac / 415 Vac; 3 W / N + PE			
Rated output current	18.2 A / 380 Vac		25.8 A / 380 Vac	30.4 A / 380 Vac
	17.3 A / 400 Vac		24.5 A / 400 Vac	28.9 A / 400 Vac
	16.7 A / 415 Vac		23.7 A / 415 Vac	27.8 A / 415 Vac
Max. output current	20.2 A / 380 Vac		28.6 A / 380 Vac	33.6 A / 380 Vac
	19.1 A / 400 Vac		27.1 A / 400 Vac	31.9 A / 400 Vac
	18.5 A / 415 Vac		26.1 A / 415 Vac	30.8 A / 415 Vac
Rated AC grid frequency	50 Hz / 60 Hz			
Adjustable power factor	0.8 leading .. 0.8 lagging			
Max. total harmonic distortion	≤ 3%			
Feature & Protection				
Overvoltage category	PV II / AC III			
Input-side disconnection device	Yes			
Anti-islanding protection	Yes			
AC over-current protection	Yes			
DC reverse-polarity protection	Yes			
DC surge protection	TYPE II			
AC surge protection	Yes, compatible with TYPE II protection class according to EN/IEC 61643-11			
DC insulation resistance detection	Yes			
Residual current monitoring unit	Yes			
Arc fault protection	Yes			
General Data				
Operating temperature range	-25 ~ +60 °C (Derating above 45 °C @ Rated output power)			
Relative humidity	0 % RH ~ 100 % RH			
Max. operating altitude	4,000 m (13,123 ft.) (Derating above 2,000 m)			
Cooling	Smart air cooling			
Display	LED indicators; integrated WLAN + iStorehome APP			
Communication	RS485; WLAN / Ethernet via Smart Dongle-WLAN-FE (Optional) 4G / 3G / 2G via Smart Dongle-4G (Optional); EMMA (Optional)			
Weight	21 kg			
Dimensions (W x H x D)	546 x 460 x 241.5 mm			
Protection level	IP66			
Country of manufacture	China			
Max. number of paralleled unit (with Smart String ESS)	3			
Standards Compliance (More Available Upon Request)				
Certificates	EN/IEC62109-1, EN/IEC62109-2			
Grid connection standards	AS/NZS 4777.22020			

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

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

Disclaimer: the preceding values are measured by an internal laboratory in a specific environment. The actual values may vary with products, software versions, usage conditions, and environmental factors.