

Three Phase ESS Hybrid Inverter

ACEY-R6KH3/R8KH3/R10KH3/R12KH3/R15KH3



PRODUCT FEATURES

Safe & Reliable

- With island protection, PV reverse polarity protection, battery reverse polarity protection, insulation monitoring, residual current monitoring, AC over current protection, AC over power protection, short circuit protection.

Friendly & Flexible

- Less noise due to no external cooling fans;
- Support diesel generator access;
- Support full power discharge, automatic management of battery charge and discharge.

Economical & Practica

- It is more economical to support multiple operating modes;
- Can be as a UPS for the important loads when power off.

Technical Parameters

Technical specification		Three Phase ESS Hybrid Inverter				
		ACEY-R6KH3/R8KH3/R10KH3/R12KH3/R15KH3				
Model	ACEY-R6KH3	ACEY-R8KH3	ACEY-R10KH3	ACEY-R12KH3	ACEY-R15KH3	
Input DC (PV)						
Max. PV Input power(W)	9000W	12000W	15000W	18000W	22500W	
Max. PV voltage (V)	1000V					
MPPT voltage range(V)	180~850V					
Full Power MPPT Voltage Range	250V~850V	330V~850V	430V~850V	510V~850V	620V~850V	
Start-up Voltage	125V					
Max.Input current per MPPT(A)	13/13A	13/13A	13/13A	13/13A	13/13A	
Max. Short-circuit Current	16/16A	16/16A	16/16A	16/16A	25/25A	
Number of MPP Trackers	2					
MPPT Number/Max. Input Strings	1/1	1/1	1/1	1/1	2/2	
Rated Input Voltage	600V					
AC Output Data(On-Grid)						
Nominal Output Power to Grid(VA)	6000VA	8000VA	10000VA	12000VA	15000VA	
Max. Apparent Power to Grid(VA)	6600VA	8800VA	11000VA	13200VA	16500VA	
Max. Apparent Power from Grid	13200VA	17600VA	22000VA	26400VA	33000VA	
Max. Apparent Current from Grid	19.1A	25.5A	31.8A	38.2A	47.6A	
Nominal Output Current to Grid	8.7A	11.5A	14.4A	17.3A	21.7A	
Max.Output Current to Grid	9.5A	12.7A	15.9A	19.1A	23.8A	
Nominal Grid Voltage	380V/400V, 3W+N+PE					
Nominal Grid Frequency	50Hz/60Hz					
THDI	< 3%					
EPS Output						
Nominal Output Power(VA)	8000VA	8000VA	10000VA	12000VA	15000VA	
Max. Apparent Power(VA)	8800VA	8800VA	11000VA	13200VA	16500VA	
Nominal Output Current	8.7A	11.5A	14.4A	17.3A	21.7A	
Max.Output Current	9.5A	12.7A	15.9A	19.1A	23.8A	
Nominal Output Voltage	400V,3W+N+PE					
Nominal Output Frequency	50Hz/60Hz					
THDu	< 3%					
Max.Efficiency	97.90%	97.90%	98.20%	98.20%	97.60%	
Europe Efficiency	97.20%	97.20%	97.50%	97.50%	97.80%	
MPPT Efficiency	99.90%					
Max.Battery Charge/Discharge Efficiency	97.50%	97.50%	97.50%	97.60%	97.80%	
Battery						
Max.Charging/Discharging Power	6600W	8800W	11000W	13200W	16500W	
Battery Voltage Range	125~600V					
Battery Working Voltage Range	150~550V					
Max.Charging/Discharging Current	50A					
Rated.Charging/Discharging Current	40A					
Battery Type	Lithium /Lead-acid Battery					
General data						
Ingress Protection	IP65					
Operating Temperature Range	-25~60℃					
Relative Humidity	0~100%					
Operating Altitude	4000m(Derating above 2000 m)					
Cooling	Natural					
Noise Emission(dB)	≤25dB					
Installation	Wall Mounted					
EMC	IEC/EN 61000-6-1:2019, IEC/EN 61000-6-2:2019, IEC/EN 61000-6-3:2021, IEN/EN 61000-6-4:2019, IEC/EN 61000-3-2:2019/A1:2021, EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011					

Grid Regulation	Europe: EN 50549-1:2019/AC:2019, Poland:EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPIREE:2021, Germany:VDE-AR-N 4105:2018/DIN VDE V 0124-100(VDE V 0124-100):2020, South Africa:NRS 097-2-1:2017 Edition 2.1, UK:G99/1-6:2020, Spain:UNE217001:2020 /UNE217002:2020/NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999,Hungary:EN505491:2019/RFG:2016/Hungary., Italy				
Safety Regulation	IEC/EN62109-1:2010, IEC/EN62109-2:2011				
Dimensions W *D *H (mm)	596*566*220MM				
Weight(kg)	30KGS	30KGS	31KGS	32KGS	34KGS
Interface					
HMI	LCD;APP				
BMS	RS485,CAN				
EMS	RS485				
Meter	RS485				
Supported Communication Interface	WIFI / GPRS				