

American ESS split phase inverter(battery voltage: 48V)

ACEY-R5KLNA/R6KLNA/R8KLNA/R10KLNA



PRODUCT FEATURES

Safe & Reliable

- Passed UL 1741:2021, IEEE 1547.1, UL1699B, South Africa NRS097-2-1:2017 test certification.

Friendly & Flexible

- Support multi-machine parallel connection;
- Support multi-machine parallel mode sharing a battery pack;
- Single-machine load capacity 100A.

Economical & Efficient

- Support parallel SOC equalization control and parallel current sharing control;
- Using split-phase topology and eliminating the transformers, to make the system efficiency higher;
- Support the diesel generator and the grid access at the same time.

Technical Parameters

Technical specification		American ESS split phase inverter ACEY-R5KLNA/R6KLNA/R8KLNA/R10KLNA			
Model	ACEY-R5KLNA	ACEY-R6KLNA	ACEY-R8KLNA	ACEY-R10KLNA	
Input (PV)					
Max. power(kW)	7.5	9	12	13	
Max. DC voltage (V)	500				
MPPT voltage range(V)	120~500				
Max.Input current of single MPPT(A)	14				
MPPT tracker/strings	4/1				
AC output					
Rated output power(kVA)	5	6	8	10	
Max. apparent Power (kVA)	5.5	6.6	8.8	11	
Max. output current(A)	22.9	27.5	36.7	45.8	
Ac output voltage(V)	120/240(split phase), 208(2/3 phase),240 (single phase)				
Frequency (Hz)	50/60				
PF	0.8lagging-0.8leading				
THDi	< 3%				
AC output topology	Split phase, 2/3 phase, single phase				
Battery					
Battery voltage range(V)	40~58				
Max. charging voltage(V)	58				
Max. charge/discharge current(A)	120/120	135/135	190/190	210/210	
Battery type	Lithium /Lead-acid				
Communication interface	CAN/RS485				
EPS output					
Rated power(kVA)	5	6	8	10	
Rated output voltage(V)	120/240 (split phase), 208 (2/3 phase),240 (single phase)				
Rated output current(A)	22.9	27.5	36.7	45.8	
Rated frequency(Hz)	50/60				
Automatic switching time(ms)	< 20				
THDu	< 2%				
Overload capacity	100%,30S/ 120%,10S/ 150%,0.02S				
General data					
Max. efficiency	≥98.2%				
North american efficiency	≥97.2%				
Ingress protection	IP65/NEMA 3R				
Noise emission(dB)	<25	<29	<29	<29	
Operation temperature	-25℃ ~ 60℃				
Cooling	Forced air				
Relative humidity	0 ~95% (non-condensing)				
Altitude	2,000m(>2,000 Derating)				
Dimensions W *D *H (mm)	460*225*760				
Weight(kg)	41				
Isolation transformer	No				
Self-consumption(W)	<25				
Display and communication					
Display	LCD/ touch screen				
Interface:RS485/Wifi/4G/CAN/DRM	yes				
Safety standard	UL1741, CSA C22.2 No. 107.1:16,UL1998				
EMC	FCC Part 15, Class B				
On-grid	IEEE1547, CPUC Rule21,SRD V2.0,UL1741 SA,UL1741SB				
DCARC-Fault	UL1699B				