



Single-Phase on/off grid Solar Inverter American ESS split phase inverter



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 & practica

- 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.



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MULT5KLNA~MULT10KLNA



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Technical specification: (48V)

Technical specification	MULT5KLNA	MULT6KLNA	MULT8KLNA	MULT10KLNA
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)	12			
MPPT tracker/strings	4/1			
AC output				
Rated output power (kVA)	5	6	8	10
Max. output current (A)	24	28.8	38.3	47.8
Ac output voltage(V)	120/240(split phase), 208(2/3 phase),230 (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),230 (single phase)			
Rated output current (A)	24	28.8	38.3	47.8
Rated frequency (Hz)	50/60			
Automatic switching time (ms)	< 20			
THDu	< 2%			
Overload capacity	125%,60S/150%,1S			
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	Natural			
Relative humidity	0 ~95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Dimensions W *D *H (mm)	430*220*710			
Weight(kg)	41			
Isolation transformer	No			
Self-consumption (W)	<3			
Display and communication				
Display	LCD, touch screen			
Interface:RS485/Wifi/4G/ CAN/DRM	Yes			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,IV			



MULT6KH1NA~MULT12KH1NA



Luxury villa



Communication base station



Nomadic farm



Residential electricity

Technical specification: (80V)

Technical specification	MULT6KH1NA	MULT8KH1NA	MULT10KH1NA	MULT12KH1NA
Input (PV)				
Max. power(kW)	7.8	10.4	13	15.6
Max. DC voltage(V)	500			
MPPT voltage range(V)	125 - 500			
Max.Input current of single MPPT (A)	12			
MPPT tracker/strings	4/1			
AC output				
Rated output power (kVA)	6	8	10	12
Max. output current (A)	27.3	36.4	45.4	50
Grid voltage/range (V)	240/211~264			
Frequency (Hz)	50/60			
PF	0.8lagging-0.8leading			
THDi	< 3%			
AC output topology	L+N+PE			
Battery				
Battery voltage range (V)	85~400			
Max. charging voltage (V)	400			
Full battery voltage(V)	85	110	140	160
Max. charge/discharge current (A)	80/80			
Battery type	lithium /Lead-acid			
Communication Interface	CAN,RS485			
EPS output				
Rated power (kVA)	6	8	10	12
Rated output voltage (V)	220-240 /110-120			
Rated frequency (Hz)	50/60			
Automatic switching time (ms)	<20			
THDu	< 2%			
Overload capacity	110%,30S/120%,10S/150%,0.02S			
General data				
Max. efficiency	≥98.2%			
CEEfficiency	≥97.2%			
Ingress protection	IP65/NEMA 3R			
Noise emission (dB)	<25	<25	<29	<29
Operation temperature	-25℃ ~60℃			
Cooling	Natural			
Relative humidity	0 ~95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Weight(kg)	32			
Dimensions W * D * H (mm)	530* 200* 660			
Display and communication				
Display	LCD			
Interface:RS485/Wifi/4G/ CAN/DRM	Yes/ Opt/ Opt/ Yes/ Yes			
Standby power consumption at night(W)	< 2.5 (With the battery < 5)			
Isolation transformer	Yes			
Safety standard	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
On-grid	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III			