

SPLIT-PHASE HYBRID INVERTER

SunWise

Battery low voltage



Key Strengths



Plug & Play



200A pass through



Capable of supporting 100% unbalanced loads.



AC couple to retrofit existing solar system (on-grid & off-grid)



3 phase 208Vac & parallel function available.



Grid & diesel generator separately connected, support storing energy from diesel generator

Model	SunWise-R12KLNA	SunWise-R16KLNA
Max.DC input power (kW)	18	24
No. of MPPT trackers	4	
MPPT voltage range (without battery)(V)	120~500 / 120~430	
MAX.DC input voltage (V)	500	
MAX. input current per MPPT (A)	16/16/16/16	20/26/20/26
MAX. short current per MPPT (A)	22	22A/34A/22A/34A
Battery input		
Nominal voltage (V)	48	
MAX.charging/discharging current (A)	250/260	
Battery voltage range (V)	40~58	
Battery type	Lithium /Lead-acid	
Charging controller	3-Stage with equalization	
AC output(on-grid)		
Nominal output power output to grid (kVA)	12	16
MAX. apparent power output to grid (kVA)	13.2	73.3
Nominal AC voltage(L-N/L1-L2) (V)	(110~120)/(220~240)split phase, 240V single phase	
Nominal AC frequency(Hz)	60Hz(55 to 65Hz)	
Nominal AC current (A)	50	66.7
Max. AC current (A)	55	73.3
Max. grid passthrough current (A)	200	
Output THDi	<3%	
AC output(back-up)		
Nominal. apparent power (kVA)	12	
Max. apparent power (no PV) (kVA)	12	
Max. apparent power (with PV) (kVA)	13.2	
Nominal output voltage(V)	120/240	
Nominal output frequency (Hz)	60	
Automatic switchover time (ms)	<20	
Output power factor	0.8leading~0.8lagging	
Output THDu	<2%	
Protection		
Grounding detection	Yes	
Arc fault protection	Yes	
Island protection	Yes	
Insulation resistor detection	Yes	
Residual current monitoring unit	Yes	
Output over current protection	Yes	
Back-up output short protection	Yes	
Output over voltage protection	Yes	
Output under voltage protection	Yes	
General data		
Mppt efficiency	99.9%	
Europe efficiency(PV)	96.2%	
Max. PV to grid efficiency(PV)	96.5%	
Max. battery to load efficiency	94.6%	
Max. PV to battery charging efficiency	95.8%	
Max. grid to battery charging efficiency	94.5%	
Operating temperature range (°C)	-25~+60	
Relative humidity	0~95%	
Operating altitude	0~4,000m(Derating above 2,000m altitude)	
Ingress protection	IP65/NEMA 3R	
Built-in breaker	Optional	
Weight (kg)	53kg(56kg with breaker)	
Dimensions W*H*D (mm)	495 × 900 × 260	
Cooling	FAN cooling	
Noise emission (dB)	38	
Display	Touch panel	
Communication with BMS/Meter/—EMS	RS485, CAN	
Supported communication interface	RS485, 4G (optional), Wi-Fi	
Self-consumption	<25W	
Safety	UL1741, UL1741SA8SB all options, UL1699B, CSA -C22.2 NO.107.1-01,RSD(NEC690.5,11,12),	
EMC	FCC part 15 class B	
Grid connection standards	IEEE 1547, IEEE 2030.5, HECO Rule 14H, CA Rule 21 Phase I) I II, CEC, CSIP,SRD2.0,SGIP,OGPe,NOM, California Prob65	
Other data		
Peak power (off grid)	110%,30s / 120%,10s / 200%,5s	