

SDPN 3k-6k 48v 220v on off grid hybrid inverter

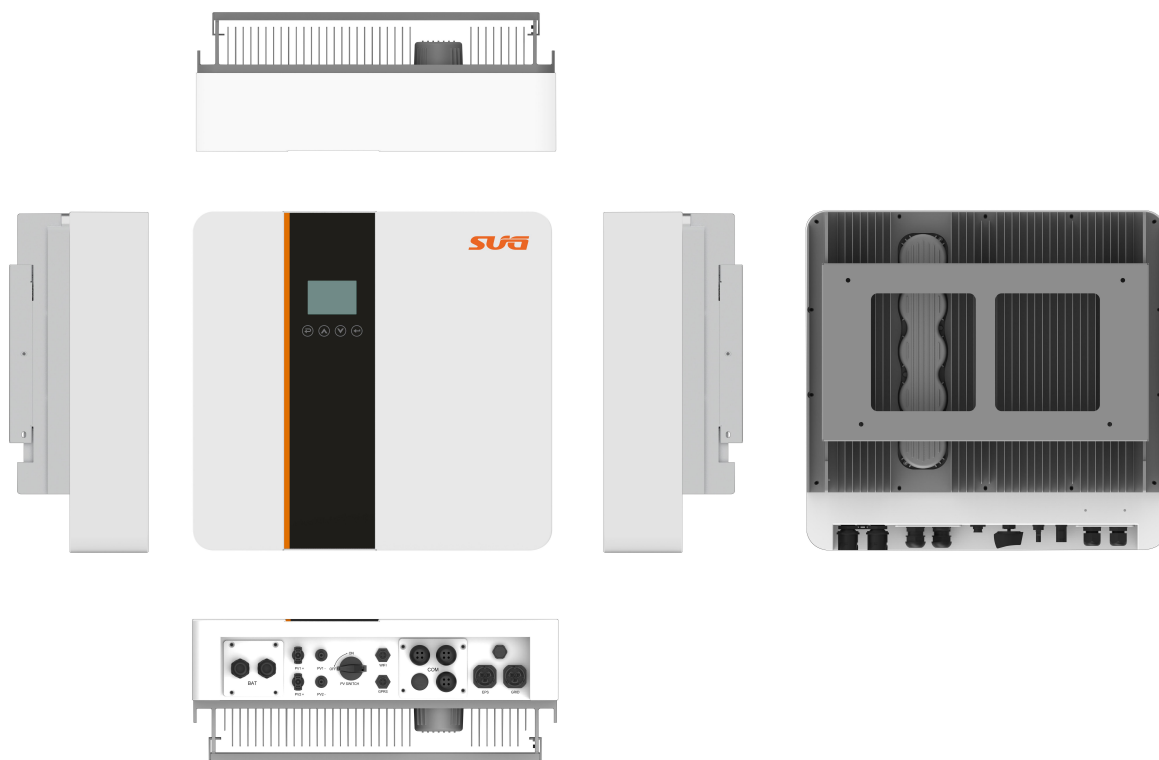
Technical specification:

Technical specification	3K	4K	5K	6K		
Input (PV)						
Max. power(kW)	4.6	4.6	6	6	7	7
Max. DC voltage(V)				550		
MPPT voltage range(V)			125~500			
Max.input current of single MPPT(A)			14			
MPPT tracker/strings			2/1			
AC output						
Rated output power(kVA)	3	3.68	4	4.6	5	6
Max. output current(A)	13	16	17.4	20	21.7	26
Grid voltage/range(V)			230/176~270			
Frequency (Hz)			50/60			
PF			0.8lagging-0.8leading			
THDi			<3%			
AC output topology			L+N+PE			
Battery						
Battery voltage range(V)			40~58			
Max. charging voltage(V)			58			
Max. charge/discharge current(A)	95/62.2	95/75	95/83.3	95/95.8	95/104.2	95/110
Battery type			lithium /Lead-acid			
Communication interface			CAN/RS485			
EPS output						
Rated power (kVA)	3	3.68	4	4.6	5	6
Rated output voltage(V)			230			
Rated output current(A)	13	16	17.4	20	21.7	26
Rated frequency (Hz)			50/60			
Automatic switching time (ms)			<20			
THDu			<2%			
Overload capacity			110%, 30S/120%, 10S/150%, 0.02S			
General data						
Battery chage/discharge effi ciency			95.0%			
DC Max. effi ciency			97.6%			
Europe effi ciency			97.0%			
MPPT effi ciency			99.9%			
Ingress protection			IP65			
Noise emission (dB)			<35			
Operation temperature			-25°C ~ 60°C			
Cooling			Natural			
Relative humidity			0 ~95% (non-condensing)			
Altitude			2,000m(>2,000 Derating)			
Dimensions W * D * H (mm)			550*200*515			
Weight(kg)			25			
Isolation transformer			No			
Self-consumption(W)			<3			
Display and communication						
Display			LCD			
Interface:RS485/Wifi /4G/ CAN/DRM			Yes/ Opt/ Opt/ Yes/ Yes			
Safety standard			IEC/EN62109-1/-2, IEC/EN62477-1			
EMC			IEC/EN61000-6-1,IEC/EN61000-6-3			
On-grid			SouthAfrica NRS097-2-1:2017, UK G98,G99			

SDPN 8k-12k 125v-600v 380v on off grid hybrid inverter

Technical specification:

Technical specification	8K	10K	12K
Input (PV)			
Max.power(kW)	12	15	18
Max. DC voltage(V)		1,000	
MPPT voltage range(V)		180~850	
Max.input current of single MPPT(A)		13	
MPPT tracker/strings	2/1	2/1	2/1
AC output			
Rated output power(kVA)	8	10	12
Max. output current(A)	12.7	15.9	19.1
Grid voltage/range(V)		400/360~440	
Frequency (Hz)		50/60	
Power factor		0.8lagging-0.8leading	
THDi		<3%	
AC output topology		3W+N+PE	
Battery			
Battery voltage range(V)		125~600	
Max. charging voltage(V)		600	
Full battery voltage(V)	250	300	350
Rated charge/discharge current(A)	40	40	40
Battery type		lithium/Lead-acid	
Communication Interface		CAN/RS485	
EPS output			
Rated power(kVA)	8.8	11	13.2
Rated output voltage(V)		400	
Max. output current(A)	12.7	15.9	19.1
Rated frequency(Hz)		50/60	
Automatic switching time(ms)		<20	
THDu		<2%	
Overload capacity		110%, 30S/120%, 10S/150%, 0.02S	
General data			
Battery charge /discharge efficiency	96.6%	96.7%	96.8%
DC Max. efficiency	97.9%	98.2%	98.2%
Europe efficiency	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%
Ingress protection		IP65	
Noise emission(dB)		<35	
Operation temperature		-25°C ~ 60°C	
Cooling		Natural	
Relative Humidity		0 ~95% (non-condensing)	
Altitude		2,000m (>2,000 Derating)	
DimensionsW * D * H(mm)		530*200*600	
Weight(kg)		29	
Isolation transformer		No	
Self-consumption(W)		<3	
Display and communication			
Display		LCD	
Interface:RS485/Wifi /4G/ CAN/DRM		Yes/ Opt/ Opt/ Yes/ Yes	
Safety standard		IEC/EN62109-1/-2, IEC/EN62477-1	
EMC		IEC/EN61000-6-1,IEC/EN61000-6-3	
On-grid	Europe : EN50549-1,	Germany : VDE4105/0124 , UK : G99 , South Africa : NRS097-2-1:2017	



SDPN 5k-10k 48v 120/240v on off grid hybrid inverter

Technical specification:

Technical specification	5K	6K	8K	10K
Input (PV)				
Max. power(kW)	7.5	9	12	15
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°C ~ 60°C			
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,NRS			