

SPLIT PHASE HYBRID INVERTER

(BATTERY VOLTAGE:48V)



Villa Residential use Farm Communication



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, the maximum parallel connection can reach 8;
- Support multi-machine parallel mode sharing a battery pack; Single-machine load capacity 100A;
- 4 independent MPPT design, making full use of light energy in different directions

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;
- Maximum efficiency up to 98.2%



Model number	SNE5K-DA	SNE6K-DA	SNE8K-DA	SNE10K-DA
PV Input				
Max. power (KW)	7.5KW	9KW	12KW	13KW
Max. DC voltage (V)	500V			
MPPT voltage range (V)	120 - 500V			
Max input current of single MPPT(A)	12A			
MPPT tracker/strings	4/1			
Output (AC)				
Rated output power (KVA)	5KVA	6KVA	8KVA	10KVA
Max. output current (A)	24A	28.8A	38.3A	47.8A
Ac output voltage (V)	120/240(Split), 208(2/3 phase),230(single phase)			
Frequency (Hz)	50 /60Hz			
PF	0.8leading~0.8lagging ~0.8			
THDI	<3%			
AC output topology	Split phase, 2/3 phase, single phase			
EPS output				
Rated power(kVA)	5KVA	6KVA	8KVA	10KVA
Rated output current(A)	24A	28.8A	38.3A	23.8A
Rated output voltage(V)	120/240 (split phase), 208 (2/3 phase),230 (single phase)			
Automatic switching time(ms)	< 20MS			
Rated frequency(Hz)	50/60Hz			
THDU	<2%			
Overload capacity	125%,60S/150%,1S			
Battery				
Battery voltage range(V)	40V~58V			
Max. charging voltage(V)	58V			
Max. charge/discharge current(A)	120A/120A	135A/135A	190A/190A	210A/210A
Battery type	Lithium/Lead-acid			
Communication	CAN/RS485			
General data				
Max efficiency	≥ 98.2%			
North american efficiency	≥ 97.2%			
Isolation transformer	No			
Ingress protection	IP65/NEMA 3R			
Noise emission(dB)	<25DB	<29DB	<29DB	<29DB
Operation temperature	-25~ +60° C			
Cooling	Fan cooling			
Relative humidity	0-95% (non-condensing)			
Altitude	2,000m(>2,000 Derating)			
Dimensions W *D *H (mm)	430*220*710MM			
Weight(kg)	41KG			
Self-consumption(W)	<3W			
Display and communication				
Display	LCD, touch screen			
Communication	RS485/Wifi/4G/CAN/DRM			
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			

