

Energy Storage

Hybrid Inverter (Low Battery Voltage)



Dynamic Power



Support
multi-parallel
connection



Compatible with
lead-acid and
lithium battery



Intelligent EMS
management
function



On/off-grid
automatic switching
function

Hybrid Inverter (Low Battery Voltage)

MODEL	SunE1-3K	SunE1-3.6K	SunE1-4K	SunE1-4.6K	SunE1-5K	SunE1-6K
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	3.6	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					
Power Factor	0.8 lagging - 0.8 leading					
THDi	< 3%					
AC Output Topology	L + N + PE					
BATTERY						
Battery Voltage Range (V)	40-58					
Max. Charging Voltage (V)	58					
Max. Charging/Discharging 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	3.6	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 Charge/Discharge Efficiency	95.0%					
DC Max. Efficiency	97.6%					
Europe Efficiency	97.0%					
MPPT Efficiency	99.9%					
IP Grade	IP65					
Noise Emission (dB)	< 35					
Operating Temperature	-25°C ~ +60°C					
Cooling	Natural					
Relative Humidity	0-95% (non-condensing)					
Altitude	2000m (> 2000m, 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					
Certificates	CE/TUV/Germany VDE4105/IEC61727/62116/61683					