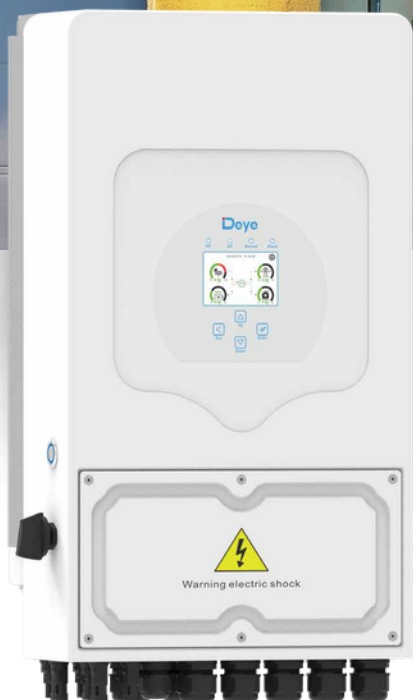
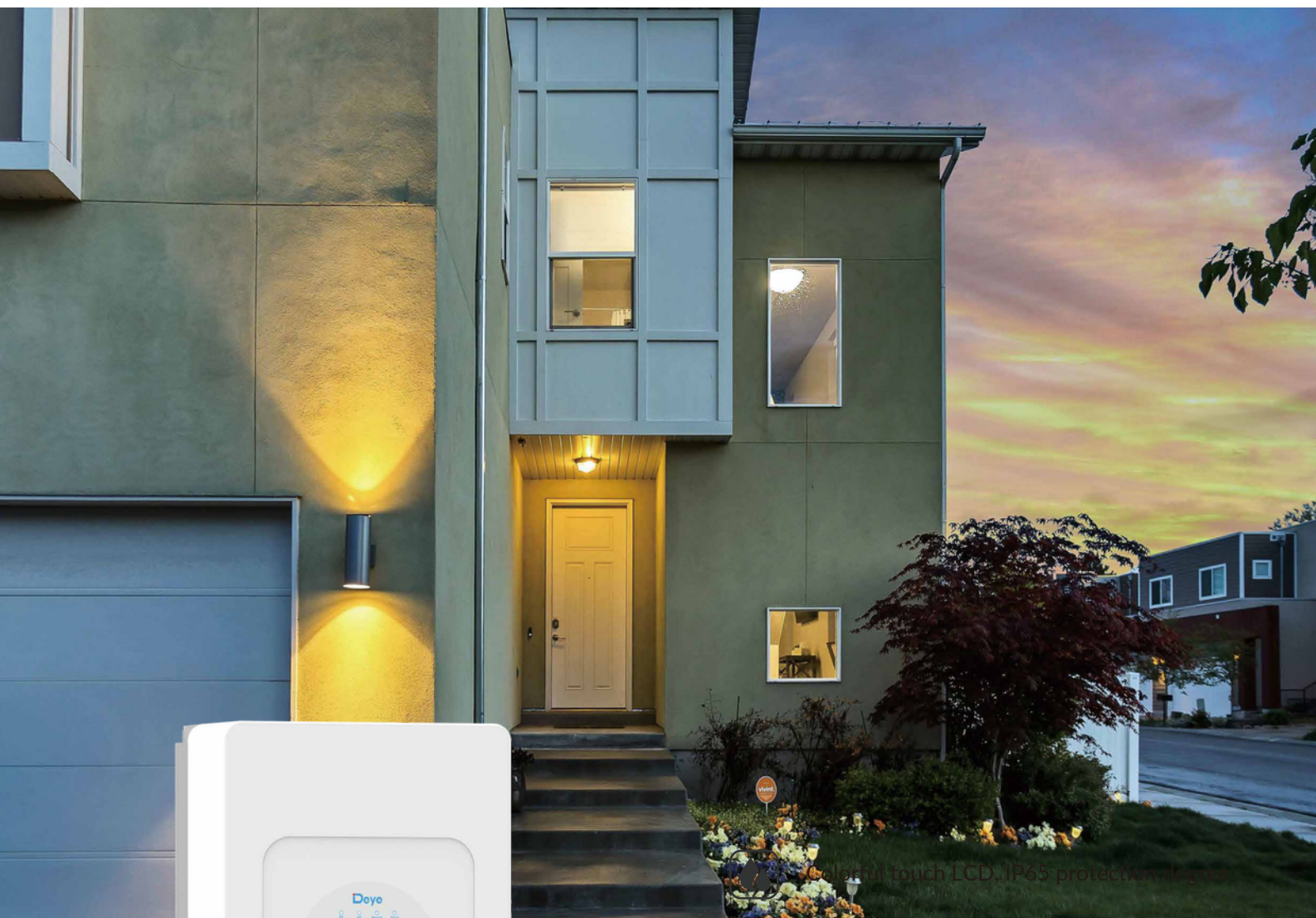




MICROMAK RENEWABLE ENERGY

Single Phase Hybrid Inverter

SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 210A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

www.deveinverter.com

Model	SUN-3.6K-SG05 LP1-EU	SUN-5K-SG05 LP1-EU	SUN-6K-SG05 LP1-EU	SUN-7.6K-SG05 LP1-EU	SUN-8K-SG05 LP1-EU	SUN-10K-SG05 LP1-EU
Battery Input Data						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging Current (A)	90	120	135	175	190	210
Max. Discharging Current (A)	90	120	135	175	190	210
Charging Strategy for Li-Ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
PV String Input Data						
Max. PV Access Power (W)	7200	10000	12000	14000	15200	20000
Max. PV Input Power (W)	5760	8000	9600	11200	12160	16000
Max. PV Input Voltage (V)	500					
Start-up Voltage (V)	125					
MPPT Voltage Range (V)	150-425					
Rated PV Input Voltage (V)	370					
Max. Operating PV Input Current (A)	13+13			26+26		
Max. Input Short-Circuit Current (A)	17+17			34+34		
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2		
AC Input/Output Data						
Rated AC Input/Output Active Power (W)						
Max. AC Input/Output Apparent Power (VA)	3600	5000	6000	7000	7600	10000
Rated AC Input/Output Current (A)	3960	5500	6600	7700	8360	11000
Max. AC Input/Output Current (A)	16.4/15.7	22.7/21.7	27.3/26.1	31.9/30.5	34.5/33	45.5/43.5
Max. Continuous AC Passthrough (grid to load) (A)	18/17.2	25/23.9	30/28.7	35/33.5	38/36.3	50/47.9
Peak Power (off-grid) (W)	35		40	50		
Power Factor Adjustment Range	2 times of rated power, 10s					
Rated Input/Output Voltage/Range (V)	0.8 leading to 0.8 lagging					
Rated Input/Output Grid Frequency/Range(Hz)	220/230 0.85Un-1.1Un					
Grid Connection Form	50/45-55, 60/55-65					
Total Current Harmonic Distortion THDi	L+N+PE					
DC Injection Current	<3% (of nominal power)					
Efficiency	<0.5% In					
Max. Efficiency						
Euro Efficiency	97.6%					
MPPT Efficiency	96.5%					
Equipment Protection	>99%					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface						
Communication Interface	WIFI,RS485,CAN					
LCD/LED Display	LCD					
General Data						
Operating Temperature Range(℃)	-40 to +60℃, >45℃ Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude	2000m					
Noise (dB)	<45					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)	330×580×232 (Excluding Connectors and Brackets)					
Weight (kg)	24.9					
Type of Cooling	Intelligent Air Cooling					
Warranty	Standard 5 years, extended warranty					
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105					
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					