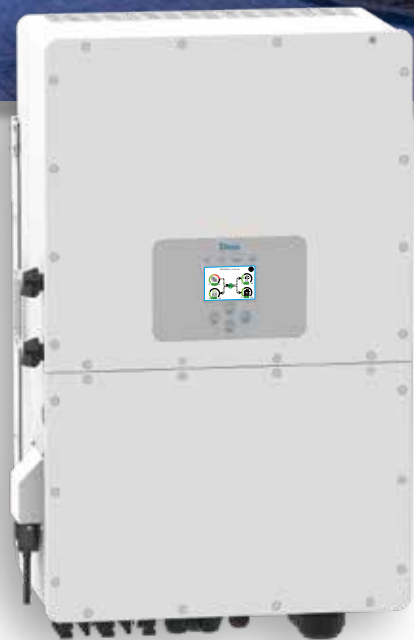


Three Phase Hybrid Inverter

SUN- 20 / 25 / 30 / 40 / 50 K-SG01HP3-EU



- 100** 100% unbalanced output, each phase; Max. output up to **50%** rated power
- DC** DC couple and AC couple to retrofit existing solar system
- 16** Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 74** Max. charging/discharging current of 74A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
- Generator** Support storing energy from diesel generator

Technical Data

Model	SUN-20K -SG01HP3-EU	SUN-25K -SG01HP3-EU	SUN-30K -SG01HP3-EU	SUN-40K -SG01HP3-EU	SUN-50K -SG01HP3-EU
Battery Input Data					
Battery Type	Lead-acid or Li-Ion				
Battery Voltage Range (V)	200~700				
Max. Charging Current (A)	37	37+37			
Max. Discharging Current (A)	37	37+37			
Number of battery input	1	2			
Charging Curve	3 Stages / Equalization				
Charging Strategy for Li-Ion Battery	Self-adaption to BMS				
PV String Input Data					
Max. DC Input Power (W)	26000	32500	39000	52000	65000
Max. DC Input Voltage (V)	1000				
Start-up Voltage (V)	160				
MPPT Range (V)	200-850				
Min. DC Input Voltage (V)	150				
Full Load DC Voltage Range (V)	360-850	365-850	435-850	450-850	450-850
Rated DC Input Voltage (V)	500	625	500	500	625
PV Input Current (A)	36+36		36+36+36	36+36+36+36	
Max. PV ISC (A)	55+55		55+55+55	55+55+55+55	
Number of MPPT / Strings per MPPT	2/2+2		3/2+2+2	4/2+2+2+2	
AC Output Data					
Rated AC Output and UPS Power (W)	20000	25000	30000	40000	50000
Max. AC Output Power (W)	22000	27500	33000	44000	55000
AC Output Rated Current (A)	30.3	38	45.6	60.8	75.8
Max. AC Current (A)	45.5	56.8	68.2	90.9	113.6
Max. Continuous AC Passthrough (A)	100				
Peak Power (off grid)	2 time of rated power, 10 S				
Generator input/Smart load /AC couple current (A)	30.3 / *180 / 30.3	38 / *180 / 38	45.6 / *180 / 45.6	60.8 / *180 / 60.8	75.8 / *180 / 75.8
Power Factor	0.8 leading to 0.8 lagging				
Output Frequency and Voltage	50/60Hz; 3L/N/PE 220/380, 230/400Vac				
Grid Type	Three Phase				
DC injection current (mA)	<0.5%1n				
Efficiency					
Max. Efficiency	97.60%				
Euro Efficiency	97.00%				
MPPT Efficiency	99.90%				
Protection					
Integrated	PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge protection				
Output Over Voltage Protection	DC Type II/AC Type III				
Certifications and Standards					
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11				
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				
General Data					
Operating Temperature Range (°C)	-45~60°C, >45°C derating				
Cooling	Smart cooling				
Noise (dB)	<45 dB				
Communication with BMS	RS485; CAN				
Weight (kg)	60				
Size (mm)	560.5W×837H×319D				
Protection Degree	IP65				
Installation Style	Wall-mounted				
Warranty	5 years				