SUN-3.6/5/8K-SG03LP1-EU



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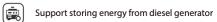
Colorful touch LCD, IP65 protection degree

DC couple and AC couple to retrofit existing solar system

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

Max. charging/discharging current of 190A

6 time periods for battery charging/discharging



Technical Data

Model	SUN-3.6K -SG03LP1-EU	SUN-5K -SG03LP1-EU	SUN-8K -SG03LP1-EU				
Battery Input Data							
Battery Type		Lead-acid or Li-lon					
Battery Voltage Range (V)		40~60					
Max. Charging Current (A)	90	120	190				
Max. Discharging Current (A)	90	120	190				
External Temperature Sensor		Yes	170				
Charging Curve	3 Stages / Equalization						
Charging Strategy for Li-lon Battery		Self-adaption to BMS					
PV String Input Data							
Max. DC Input Power (W)	4680	6500	10400				
Rated PV Input Voltage (V)		370 (125~500)					
Start-up Voltage (V)		125					
MPPT Voltage Range (V)		150-425					
Full Load DC Voltage Range (V)	3.00	0-425	200-425				
PV Input Current (A)		3+13	26+26				
Max. PV ISC (A)		7+17	34+34				
Number of MPPT / Strings per MPPT		/1+1	2/2+2				
AC Output Data							
Rated AC Output and UPS Power (W)	3600	5000	6000				
Max. AC Output Power (W)	3690	5500	6600				
AC Output Rated Current (A)	16.4	22.7	36.4				
Max. AC Current (A)	18	25	40				
Max. Continuous AC Passthrough (A)		35	50				
Peak Power (off grid)	2 time of rated power, 10 S						
Power Factor	0.8 leading to 0.8 lagging						
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Vac (single phase)						
Grid Type	Single Phase						
DC injection current (mA)		THD<3% (Linear load<1.5%)					
Efficiency		1110 1070 (211101110000 111070)					
Max. Efficiency		97.60%					
Euro Efficiency	97.00%						
MPPT Efficiency	>99%						
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, Surge protection						
Certifications and Standards							
Grid Regulation	EN50549,AS4777.2,VDE0126,IEC61727,VDEN4105,G99,NBT32004, CEI0-21,NRS097,NBR16149/16150,RD1699						
Safety EMC / Standard		EN61000-6-1,EN61000-6-2,EN61000-6-3,					
General Data							
Operating Temperature Range (°C)		-45~60 [°] C, >45 [°] C derating					
Cooling	Natural cooling						
Noise (dB)	<30 dB						
Communication with BMS							
Weight (kg)	20.5						
Size (mm)							
Protection Degree		IP65					
Installation Style		Wall-mounted					
Warranty		5 years					

SUN-5/6K-SG01LP1-US SUN-7.6/8K-SG01LP1-US/EU



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Colorful touch LCD, IP65 protection degree

DC couple and AC couple to retrofit existing solar system

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

Max. charging/discharging current of 190A

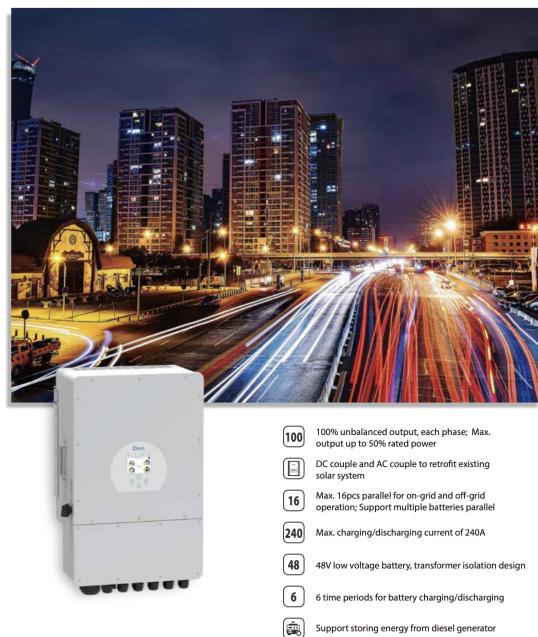
6 time periods for battery charging/discharging

Support storing energy from diesel generator

Technical Data

Model	SUN-5K -SG01LP1-US	SUN-6K -SG01LP1-US	SUN-3 SG01LP1		SUN- SG01LP1-			
Battery Input Data								
Battery Type		Lead-a	cid or Li-lon					
Battery Voltage Range (V)		4	0~60					
Max. Charging Current (A)	120 135 190		0	190)			
Max. Discharging Current (A)	120 135 190		0	190)			
External Temperature Sensor			Yes	-				
Charging Curve		3 Stages	/ Equalization					
Charging Strategy for Li-lon Battery	Self-adaption to BMS							
PV String Input Data								
Max. DC Input Power (W)	6500	7800	988	0	1040	0		
Rated PV Input Voltage (V)		370 (125~500)					
Start-up Voltage (V)			125					
MPPT Voltage Range (V)		15	50-425					
Full Load DC Voltage Range (V)	300-425		200-	125				
PV Input Current (A)	13+13	26+13			i+26			
Max. PV ISC (A)	17+17	34+17		34	+34			
Number of MPPT / Strings per MPPT	2/1+1	2/2+1		2/2+2				
AC Output Data				2./				
Rated AC Output and UPS Power (W)	5000	6000	760	0	800	0		
Max. AC Output Power (W)	5500	6600	836		880			
AC Output Rated Current (A)	20.8/24	25/28.8	31.7/36.5	34.5	33.3/38.5	36.4		
Max. AC Current (A)	22.9/26.4	27.5/31.7	34.8/40.2	38	36.7/42.3	40		
Max. Continuous AC Passthrough (A)			J4.0/40.2			-10		
Peak Power (off grid)	40 50							
Power Factor	2 time of rated power, 10 S 0.8 leading to 0.8 lagging							
Dutput Frequency and Voltage	50 / 60Hz; L1/L2/N(PE) 120/240Vac (split phase), 208Vac (2/3 phase), L/N/PE 220/230Vac (single phase)							
Grid Type			phase; Single Ph					
DC injection current (mA)			near load<1.5%)	ase				
Efficiency		1110 (370 (21	incur iouu (11570)					
Max. Efficiency		0	7.60%					
uro Efficiency								
MPPT Efficiency								
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, Surge protection							
Certifications and Standards								
Grid Regulation	IEEE 1547-2018,IEEE 1547.1-2020,UL 1699B,UL 1998EN50549,A54777.2,VDE0126,IEC61727, VDEN4105,G99,NBT32004,CEI0-21,NR5097,NBR16149/16150,RD1699							
Safety EMC / Standard		09-1/-2, EN61000-6-1,EN6						
General Data								
Dperating Temperature Range (°C)		-45~60°C,	>45℃ derating					
Cooling			rt cooling					
Noise (dB)			:30 dB					
Communication with BMS			85; CAN					
Weight (kg)			32					
Size (mm)		420W×	670H×233D					
Protection Degree			IP65					
Installation Style								
	Wall-mounted 5 years							

SUN-5/6/8/10/12 K-SG04LP3-EU



Support storing energy from diesel generator

Technical Data

Model	SUN-5K -SG04LP3-EU	SUN-6K -SG04LP3-EU	SUN-8K -SG04LP3-EU	SUN-10K -SG04LP3-EU	SUN-12K -SG04LP3-EU		
Battery Input Data							
Battery Type		Lead-acid or Li-lon					
Battery Voltage Range (V)			40~60				
Max. Charging Current (A)	120	150	190	210	240		
Max. Discharging Current (A)	120	150	190	210	240		
External Temperature Sensor			Yes				
Charging Curve			3 Stages / Equalization	۱			
Charging Strategy for Li-lon Battery			Self-adaption to BMS				
PV String Input Data							
Max. DC Input Power (W)	6500	7800	10400	13000	15600		
Rated PV Input Voltage (V)			550 (160~800)				
Start-up Voltage (V)			160				
MPPT Voltage Range (V)			200-650				
Full Load DC Voltage Range (V)			350-650				
PV Input Current (A)		13+13	330-030	26-	12		
Max. PV ISC (A)		17+17		34-			
Number of MPPT / Strings per MPPT		2/1+1		2/2			
AC Output Data		∠/1+1		2/2	+1		
Rated AC Output and UPS Power (W)	5000	6000	8000	10000	12000		
Max. AC Output Power (W)	7.6	6600 9.1	8800	11000	13200		
AC Output Rated Current (A)			12.1	15.2			
Max. AC Current (A)	11.4	13.6	18.2	22.7	27.3		
Max. Continuous AC Passthrough (A)			45				
Peak Power (off grid)			time of rated power, 1				
Power Factor			0.8 leading to 0.8 laggir	-			
Output Frequency and Voltage		50/60Hz	z; 3L/N/PE 220/380, 230	0/400Vac			
Grid Type			Three Phase				
DC injection current (mA)		TH	D<3% (Linear load<1.5	5%)			
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, Surge protection						
Certifications and Standards							
Grid Regulation			DE0126,IEC61727,VDEI IRS097,NBR16149/161				
Safety EMC / Standard		EC62109-1/-2, EN6100	00-6-1,EN61000-6-2,EN	61000-6-3,EN61000-6-	4		
General Data							
Operating Temperature Range (C)		-4	45~60 [℃] , >45°C derati	ng			
Cooling	Statuting						
Noise (dB)							
Communication with BMS							
Weight (kg)	33.6						
Size (mm)			422W x 702H x281D				
Protection Degree			IP65				
Installation Style			Wall-mounted				
Warranty			5 years				

Three Phase Hybrid Inverter

SUN-6/8/10/12/15 K-SG01HP3-EU



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100% unbalanced output, each phase; Max. output up to 50% rated power

DC couple and AC couple to retrofit existing solar system

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

Max. charging/discharging current of 37A

High voltage battery, higher efficiency

6 time periods for battery charging/discharging

Support storing energy from diesel generator

Technical Data

Model	SUN-6K -SG01HP3-EU	SUN-8K -SG01HP3-EU	SUN-10K -SG01HP3-EU	SUN-12K -SG01HP3-EU	SUN-15K -SG01HP3-EU			
Battery Input Data								
Battery Type			Lead-acid or Li-lon					
Battery Voltage Range (V)			96~600					
Max. Charging Current (A)			37					
Max. Discharging Current (A)			37					
Number of battery input			1					
Charging Curve	3 Stages / Equalization							
Charging Strategy for Li-Ion Battery			Self-adaption to BMS					
PV String Input Data								
Max. DC Input Power (W)	7800	100400	13000	15600	19500			
Max. DC Input Voltage (V)			1000					
Start-up Voltage (V)			160					
MPPT Range (V)			200-850					
Full Load DC Voltage Range (V)			300-850					
Rated DC Input Voltage (V)			150					
PV Input Current (A)			36+18					
Max. PV ISC (A)			50+25					
Number of MPPT / Strings per MPPT			2/2+1					
AC Output Data								
Rated AC Output and UPS Power (W)	6000	8000	10000	12000	15000			
Max. AC Output Power (W)	6600	8800	11000	13200	16500			
AC Output Rated Current (A)	9.1	12.1	15.2	18.2	22.7			
Max. AC Current (A)	13.6	18.2	22.7	27.3	34.1			
Max. Continuous AC Passthrough (A)			50					
Peak Power (off grid)		2	time of rated power, 1	0 S				
Generator input/Smart load /AC couple current (A)	9.1 / *180 / 9.1	12.1 / *180 / 12.1	15.2 / *180 / 15.2	18.2 / *180 / 18.2	22.7 / *180 / 22.7			
Power Factor		C	.8 leading to 0.8 laggir	ng				
Output Frequency and Voltage		50/60Hz	z; 3L/N/PE 220/380, 23	0/400Vac				
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, Surge protection							
Certifications and Standards								
Grid Regulation	EN50549,		EC61727, VDEN4105, G IBR16149/16150, RD16		1, NRS097,			
Safety EMC / Standard	IE	C62109-1/-2, EN6100	0-6-1, EN61000-6-2, EN	61000-6-3, EN61000-6	j-4			
General Data								
Operating Temperature Range ('C)		-4	45~60℃,>45℃ deratii	ng				
Cooling			Smart cooling					
Noise (dB)			<45 dB					
Communication with BMS			RS485; CAN					
Weight (kg)			26					
Size (mm)			396W×580H×230D					
Protection Degree			IP65					
Installation Style			Wall-mounted					
Warranty			5 years					

Three Phase Hybrid Inverter

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



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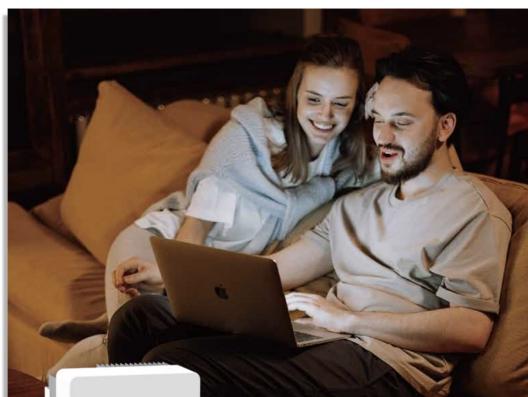


- 100% unbalanced output, each phase; Max. output up to 50% rated power
- DC couple and AC couple to retrofit existing solar system
 - Max. 16pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
 - Max. charging/discharging current of 74A
 - High voltage battery, higher efficiency
 - 6 time periods for battery charging/discharging
 - 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-lon				
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	า			
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)		01000	1000				
Start-up Voltage (V)			160				
MPPT Range (V)			200-850				
Min. DC Input Voltage (V)			150				
	360-850	365-850	435-850	450-850	450-850		
Full Load DC Voltage Range (V) Rated DC Input Voltage 00	500	625	435-850	450-850	450-850		
Rated DC Input Voltage (V)			36+36+36		-36+36		
PV Input Current (A) Max. PV ISC (A)			36+36+36		+36+36		
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)	45.4	41.8	50.1	66.9	83.3		
Max. Continuous AC Passthrough (A)			100				
Peak Power (off grid)		2	time of rated power, 1	0 5			
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.		
Power Factor		(0.8 leading to 0.8 laggir	ng			
Output Frequency and Voltage		50/60H	z; 3L/N/PE 220/380, 23	0/400Vac			
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, Surge protection						
Certifications and Standards							
Grid Regulation	EN50549, AS4777.2, VDE0126, IEC61727, VDEN4105, G99, NBT32004, CEI0-21, NRS097, NBR16149/16150, RD1699						
Safety EMC / Standard	IE	C62109-1/-2, EN6100	0-6-1, EN61000-6-2, EN	l61000-6-3, EN61000-6	-4		
General Data							
Operating Temperature Range (^{'C})		-	45~60 [°] C, >45°C derati	ng			
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						

Hybrid Inverter SUN- 3 / 3.6 / 5 / 6 K-SG04LP1-EU





Colorful touch LCD, IP65 protection degree

DC couple and AC couple to retrofit existing solar system

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

Max. charging/discharging current of 140A

6 time periods for battery charging/discharging



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Support storing energy from diesel generator

Technical Data

Model	SUN-3K -SG04LP1-24-EU	SUN-3K -SG04LP1-EU	SUN-3.6K -SG04LP1-EU	SUN-5K -SG04LP1-EU	SUN-6K -SG04LP1-EU					
Battery Input Data										
Battery Type			Lead-acid or Li-lon							
Battery Voltage Range (V)	20~30	40~60	40~60	40~60	40~60					
Max. Charging Current (A)	140	70	90	120	135					
Max. Discharging Current (A)	140	70	90	120	135					
Number of battery input		70	Yes	120	155					
Charging Curve			3 Stages / Equalization	n						
Charging Strategy for Li-Ion Battery			Self-adaption to BMS							
PV String Input Data			ben adaption to bins	•						
Max. DC Input Power (W)	3900	3900	4680	6500	7800					
Rated PV Input Voltage (V)		5700	370 (125~500)	0500	7000					
Start-up Voltage (V)			125							
MPPT Voltage Range (V)			150-425							
Full Load DC Voltage Range (V) PV Input Current (A)		3	300-425	13+13						
Vax. PV ISC (A)		7		17+17						
		/1		2/1+1						
Number of MPPT / Strings per MPPT	1.	/1		2/1+1						
AC Output Data										
Rated AC Output and UPS Power (W)	30		3600	5000	6000					
Max. AC Output Power (W)	33		3690	5500	6600					
AC Output Rated Current (A)	13.6		16.4	22.7	27.3					
Max. AC Current (A)	15		18	25	30 40					
Max. Continuous AC Passthrough (A)		35								
Peak Power (off grid)			time of rated power, 1							
Power Factor		0.8 leading to 0.8 lagging								
Output Frequency and Voltage	50/60Hz; L/N/PE 220/230Va c (si ngle phase)									
Grid Type		Single Phase								
DC injection current (mA)		Tł	HD<3% (Lipear load<1.)	5%)						
Efficiency										
Max. Efficiency			/ 97.60%							
Euro Efficiency			96.50%							
MPPT Efficiency			>99%							
Protection				<u>دَ</u>	2					
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, Surge protection									
Certifications and Standards										
Grid Regulation	EN50		126,IEC61727,VDEN410 097,NBR16149/16150,R		-21,					
Safety EMC / Standard	IE	EC62109-1/-2, EN610	00-6-1,EN61000-6-2,EN	61000-6-3,EN61000-6	-4					
General Data										
Operating Temperature Range ($^{\circ}$)			45~60℃,>45℃ derati	ng						
Cooling	Natural cooling									
Noise (dB)	<30 dB									
Communication with BMS	R5485; CAN									
Weight (kg)		11.4	-	1	4					
Size (mm)	330W x 559.5H x228D		330W x 43	33H x248D						
Protection Degree		1	IP65							
Installation Style			Wall-mounted							
Warranty			5 years							

SUN-3/3.6/5/6K-SG03LP1-EU



