

COMPLETE SOLAR POWER SYSTEM

COMMERCIAL HYBRID
PHOTOVOLTAIC SOLAR SYSTEM











Product Description

Hybrid Solar System(also called solar storage system) is kind of micro-grid solution. Sunpal Power has carefully designed and engineered our hybrid solar power systems to be faster and easier to install. Our hybrid solar power system produce zero emissions, are noiseless, and easy for installation.

Standard Grid-tie systems will not provide electricity directly to your house during a power outage due to safety regulations(anti-islanding) even if the solar modules are producing DC current. Hybrid solar systems can be independent of the standard utility grid,and can typically deliver the equivalent expectaions of the traditional grid.

Whether you will be using hybrid solar system for your remote cabin, your place of business, or your full-time residence, Sunpal Power has an hybrid solar solution that can fit almost any installation requirement.

Product Benefits

- Become completely energy independent
- Reduce the burning of fossil fuels for a healthier environment
- Eliminate the problems of grid blackouts

Common Application

- Installation sites where bringing in the electricity from the grid is too expensive or difficult
- Locations where liquid fuel costs are too high or difficult to maintain
- Those looking to be completely independent from the grid
- Those who cannot afford to lose power or have power outages

HYBRID SOLAR SYSTEM





	L	SP30KW3-HY	SP50KW3-HY	SP100KW3-HY	SP120KW3-HY	SP150KW3-HY
V System Size N	Nominal (Inverter Power) (kW)	30	50	100	120	150
	OUTION TIONS					
	CIFICATIONS (*Mono)	T				
Power (W)				280		
/mp (V)				31.8		
Voc (V)				38.8		
Isc (A)				9.33		
Imp (A)				8.81		
Dimensions (L x W x H) (mm)				1650*992*35		
PV Module weight (kg)				18.6		
Certifications			CE / TUV	(IEC 61215 & IEC 61730) / UI	_ (UL1703)	
Polycrystalline P	V modules also available up on req	uest				
	GER SPECIFICATIONS					
Rated Output Pov		30	50	100	120	150
pparent Power ((kVA)	33	55	110	132	165
ransformer				Yes		
C Voltage				3/N/PE, 360V - 440V		
C Frequency (H	z)			50 / 60		
Battery Voltage (V)				420		
PPT Charge Cur	rent (A)	85	142	285	340	425
V Input Power (\	W)	30000	50000	100000	120000	150000
V MPP Voltage F				480 - 800		
			Input over/under volt	tage, output over/under vol	tage, overload, short circuit	:
rotections				ture, reverse polarity, lightn		
Standby Consumption			2.2. comporu	< 30W	U U . p	
				Touch screen		
Display		950 x 750 x 1860	950 x 750 x 1860	1200 x 800 x 1900	1200 x 800 x 1900	1400 x 800 x 19
Dimensions (W x H x D) (mm)		950 x 750 x 1860 440	620	900		1250
verter Weight (кд)	440	620	900	1024	1250
ATTERY BANK	SDECIEICATIONS					
	SPECIFICATIONS					
Battery Type				Lead-acid gel		
Battery Voltage (V)				2		
Battery Bank Voltage (V)				420		
*Battery Current (Ah)		200	400	600	800	1000
*Battery Bank Current (Ah)		200	400	600	800	1000
*Battery Bank Power - Total (Wh)		84000	168000	252000	336000	420000
Battery Bank Po	wer - 50% DOD (Wh)	42000	84000	126000	168000	210000
Battery Dimensions (L x W x H) (mm)		172.5 x 110 x 351	211 x 176 x 353	302 x 175 x 353	409 x 175 x 353	475 x 174 x 35
Battery Weight (kg)		14	26	37	50	62
Full Cycles (50%	DOD)			1800		
	storage can be increased			210		
Total Batteries - *				Series		
				/ DLL / ISO 14001 / OLICAC 16	3001	
Total Batteries - * Connection Certifications			CE /	' RU / ISO 14001 / OHSAS 18		
Connection Certifications	is shown for reference only actual	capacity should be designed				
Connection Certifications	is shown for reference only,actual	capacity should be designed				
Connection Certifications	is shown for reference only,actual	capacity should be designed				
Connection Certifications Battery capacity BOS		capacity should be designed			10 to 1 / 2	12 to 1 / 2
Connection Certifications Battery capacity SOS V Combiner Box	x (Type / #)		based on the actual powe	r usage.		12 to 1 / 2 2400
connection Certifications Battery capacity OS V Combiner Box PV Wire Harness	x (Type / #)	5 to 1/1	based on the actual powe	r usage. 16 to 1 / 1	10 to 1 / 2	
connection Certifications Battery capacity COS V Combiner Box PV Wire Harness DC Wire (Combi	x (Type / #) s - 4mm² (m) iner Box to Inverter)	5 to 1/1 500	8 to 1/1	r usage. 16 to 1 / 1 1600	10 to 1 / 2 2000	2400
Connection Certifications Battery capacity GOS W Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4:	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m)	5 to 1/1 500 16m²/100m	8 to 1/1 800 25m² / 100m	r usage. 16 to 1 / 1 1600 35m² / 100m 400	10 to 1 / 2 2000 25m² / 100m	2400 25m² / 100m
Connection Certifications Battery capacity BOS V Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4 VV Mounting Syst	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem	5 to 1/1 500 16m²/100m	8 to 1/1 800 25m² / 100m	r usage. 16 to 1 / 1 1600 35m² / 100m 400 Customized	10 to 1 / 2 2000 25m² / 100m	2400 25m² / 100m
Connection Certifications Battery capacity BOS V Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4: V Mounting Syst Battery Bank Rac	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem	5 to 1/1 500 16m²/100m	8 to 1/1 800 25m² / 100m	r usage. 16 to 1 / 1 1600 35m² / 100m 400	10 to 1 / 2 2000 25m² / 100m	2400 25m² / 100m
Connection Certifications Battery capacity 3OS PV Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4: PV Mounting Syst Battery Bank Rac	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem	5 to 1/1 500 16m²/100m	8 to 1/1 800 25m² / 100m	r usage. 16 to 1 / 1 1600 35m² / 100m 400 Customized	10 to 1 / 2 2000 25m² / 100m	2400 25m² / 100m
Connection Certifications Battery capacity BOS BV Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4 DV Mounting Syst Battery Bank Rac Extra wire is avai	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem ik	5 to 1/1 500 16m²/100m	8 to 1/1 800 25m² / 100m	r usage. 16 to 1 / 1 1600 35m² / 100m 400 Customized	10 to 1 / 2 2000 25m² / 100m	2400 25m² / 100m
connection Certifications Battery capacity BOS EV Combiner Box EV Combiner Combiner Combiner - 4 EV Mounting Syst Stattery Bank Rac Extra wire is availated.	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem ik iliable up request	5 to 1/1 500 16m²/100m	8 to 1/1 800 25m² / 100m	r usage. 16 to 1 / 1 1600 35m² / 100m 400 Customized	10 to 1 / 2 2000 25m² / 100m	2400 25m² / 100m
Connection Certifications Battery capacity BOS PV Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4st PV Mounting Syst Battery Bank Rac Extra wire is avai	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem :k iilable up request	5 to 1/1 500 16m²/100m 100	8 to 1/1 800 25m² / 100m 200	16 to 1/1 1600 35m²/100m 400 Customized Customized	10 to 1 / 2 2000 25m² / 100m 500	2400 25m² / 100m 600
connection Certifications Battery capacity BOS EV Combiner Box PV Wire Harness Ground Wire - 4st EV Mounting Syst Battery Bank Rac Extra wire is avai	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem :k iilable up request f les	5 to 1/1 500 16m²/100m 100	8 to 1 / 1 800 25m² / 100m 200	16 to 1/1 1600 35m²/100m 400 Customized Customized 336 1	10 to 1 / 2 2000 25m² / 100m 500	2400 25m² / 100m 600
Connection Certifications Battery capacity BOS PV Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4: PV Mounting Syst Battery Bank Rac Extra wire is avai SYSTEM LAYOUT Number of Modul Number of Inverted	x (Type / #) s - 4mm² (m) iner Box to Inverter) imm² (m) tem :k iilable up request f les ers Area (m²)	5 to 1/1 500 16m²/100m 100	8 to 1 / 1 800 25m² / 100m 200	16 to 1/1 1600 35m²/100m 400 Customized Customized 336 1 571.2	10 to 1 / 2 2000 25m² / 100m 500 420	2400 25m² / 100m 600 504
connection Certifications Battery capacity BOS EV Combiner Box EV Combiner Box EV Combiner Box EV Mounting Syst Battery Bank Rac Extra wire is avai EXSTEM LAYOUT Jumber of Modul Jumber of Invert	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem :k ilable up request f les ers Area (m²) (kg)	5 to 1/1 500 16m²/100m 100	8 to 1 / 1 800 25m² / 100m 200	16 to 1/1 1600 35m²/100m 400 Customized Customized 336 1 571.2 6249.6	10 to 1 / 2 2000 25m² / 100m 500	2400 25m² / 100m 600
connection Certifications Battery capacity COS V Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4 V Mounting Syst Battery Bank Rac Extra wire is avai YSTEM LAYOUT Iumber of Modul Iumber of Invert V Array Surface V Array Weight	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem :k ilable up request f les ers Area (m²) (kg) No. of PV Modules / String	5 to 1/1 500 16m²/100m 100 105 178.5 1953	8 to 1 / 1 800 25m² / 100m 200 168 285.6 3124.8	16 to 1/1 1600 35m²/100m 400 Customized Customized 336 1 571.2 6249.6 21	10 to 1 / 2 2000 25m² / 100m 500 420 714 7812	2400 25m² / 100m 600 504 856.8 39374.4
connection Certifications Battery capacity BOS BV Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4 V Mounting Syst Battery Bank Rac Extra wire is avai EXTEM LAYOUT Jumber of Modul Jumber of Inverte DV Array Surface EV Array Weight DV Module	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem ck iliable up request r les ers Area (m²) (kg) No. of PV Modules / String Total Strings	5 to 1/1 500 16m²/100m 100	8 to 1 / 1 800 25m² / 100m 200	16 to 1/1 1600 35m²/100m 400 Customized Customized 1 571.2 6249.6 21 16	10 to 1 / 2 2000 25m² / 100m 500 420	2400 25m² / 100m 600 504
connection Certifications Battery capacity BOS PV Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4 PV Mounting Syst Battery Bank Rac Extra wire is avai EXTEM LAYOUT Jumber of Modul Jumber of Inverte PV Array Surface PV Array Weight PV Module String	x (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem c:k iliable up request r les ers Area (m²) (kg) No. of PV Modules / String Total Strings String Voc (V)	5 to 1/1 500 16m²/100m 100 105 178.5 1953	8 to 1 / 1 800 25m² / 100m 200 168 285.6 3124.8	16 to 1/1 1600 35m²/100m 400 Customized Customized 1 571.2 6249.6 21 16 814.8	10 to 1 / 2 2000 25m² / 100m 500 420 714 7812	2400 25m² / 100m 600 504 856.8 39374.4
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Connection Certifications Battery capacity BOS PV Combiner Box PV Wire Harness DC Wire (Combi Ground Wire - 4 PV Mounting Syst Battery Bank Rac Extra wire is avail SYSTEM LAYOUT Number of Modul Number of Invert PV Array Surface PV Array Weight PV Module String Configuration PRODUCTION ES Projectd Yearly (19 Projectd Yearly (ck (Type / #) s - 4mm² (m) iner Box to Inverter) mm² (m) tem ik illable up request f les ers Area (m²) (kg) No. of PV Modules / String Total Strings String Voc (V) String Vmp (V) String Imp (A) itIIMATES (kWh AC) Output at 4 PSH / Day	5 to 1/1 500 16m²/100m 100 105 178.5 1953 5	8 to 1 / 1 800 25m² / 100m 200 168 285.6 3124.8 8	16 to 1/1 1600 35m²/100m 400 Customized Customized 1 571.2 6249.6 21 16 814.8 667.8 8.31	10 to 1 / 2 2000 25m² / 100m 500 420 714 7812 20	2400 25m² / 100m 600 504 856.8 39374.4 24
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SP30KW3-HY



