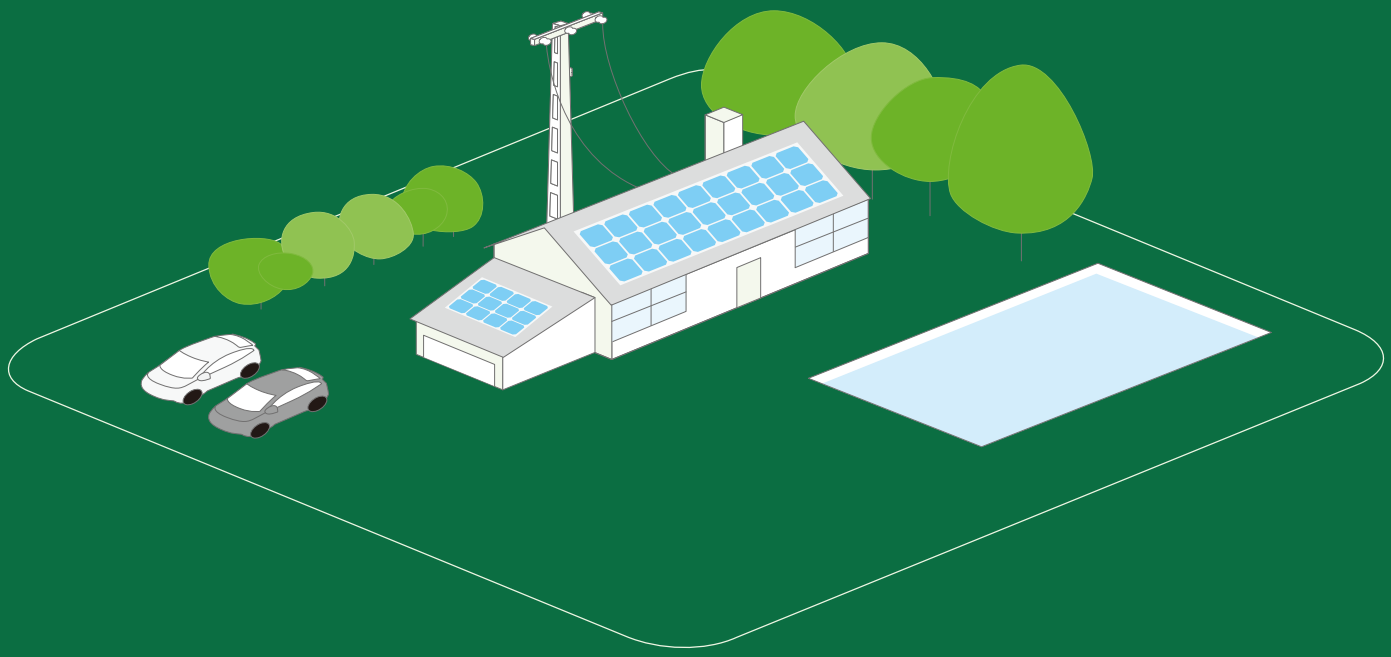
ALL IN ONE SOLAR SYSTEM

RESIDENTIAL ON GRID PHOTOVOLTAIC SOLAR SYSTEM KIT



www.sunpalpower.com

Sunpal

RESIDENTIAL ON GRID
3KW-5KW-10KW

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Product Description

Sunpal Power's Residential Solar Pv Kits are the most cost effective and easy PV solutions available for home use.They are ideally suited for any household that is looking to reduce energy costs using an efficient and clean energy system.

Sunpal Power's grid-tied solar power systems are directly connected to the home's electric panel and electric utility grid.Our grid-tied systems allow homeowners to get power from either their solar electric system or the utility grid,switching seamlessly between the grid-tied PV system and the grid.When your grid-tied system is producing more power than your home is consuming,the excess power can often be sold back to the utility in a practice known as net metering.When your system is not prodcing sufficient power or during non-dalight hours your home can draw power from the utility grid.

Product Benefits

- Generate your own electricity from home and reduce your electric bill
- Increase the value of your home
- Hedge yourself against future utility increases
- Reduce your carbon footprint

Common Application

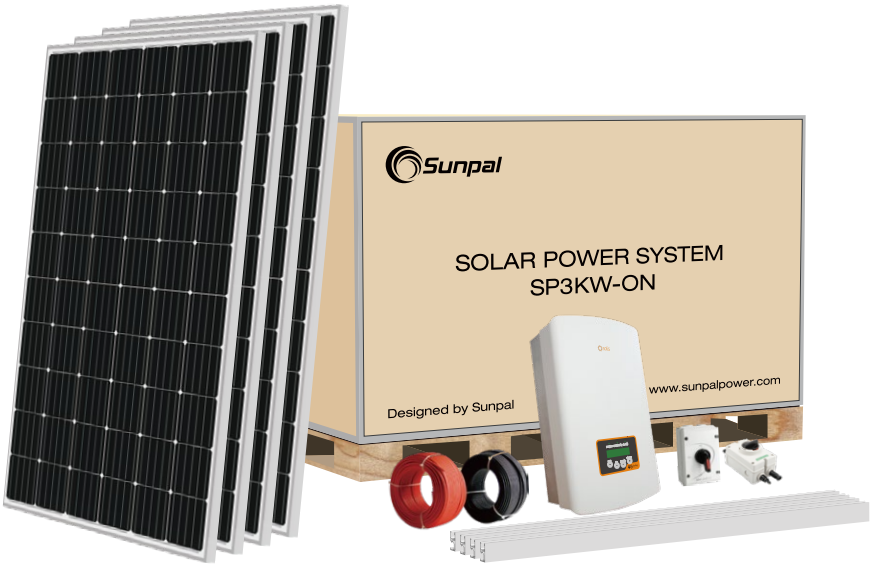
- Homes
- Villas
- Out buildings
- Garages
- Apartments

RESIDENTIAL ON-GRID

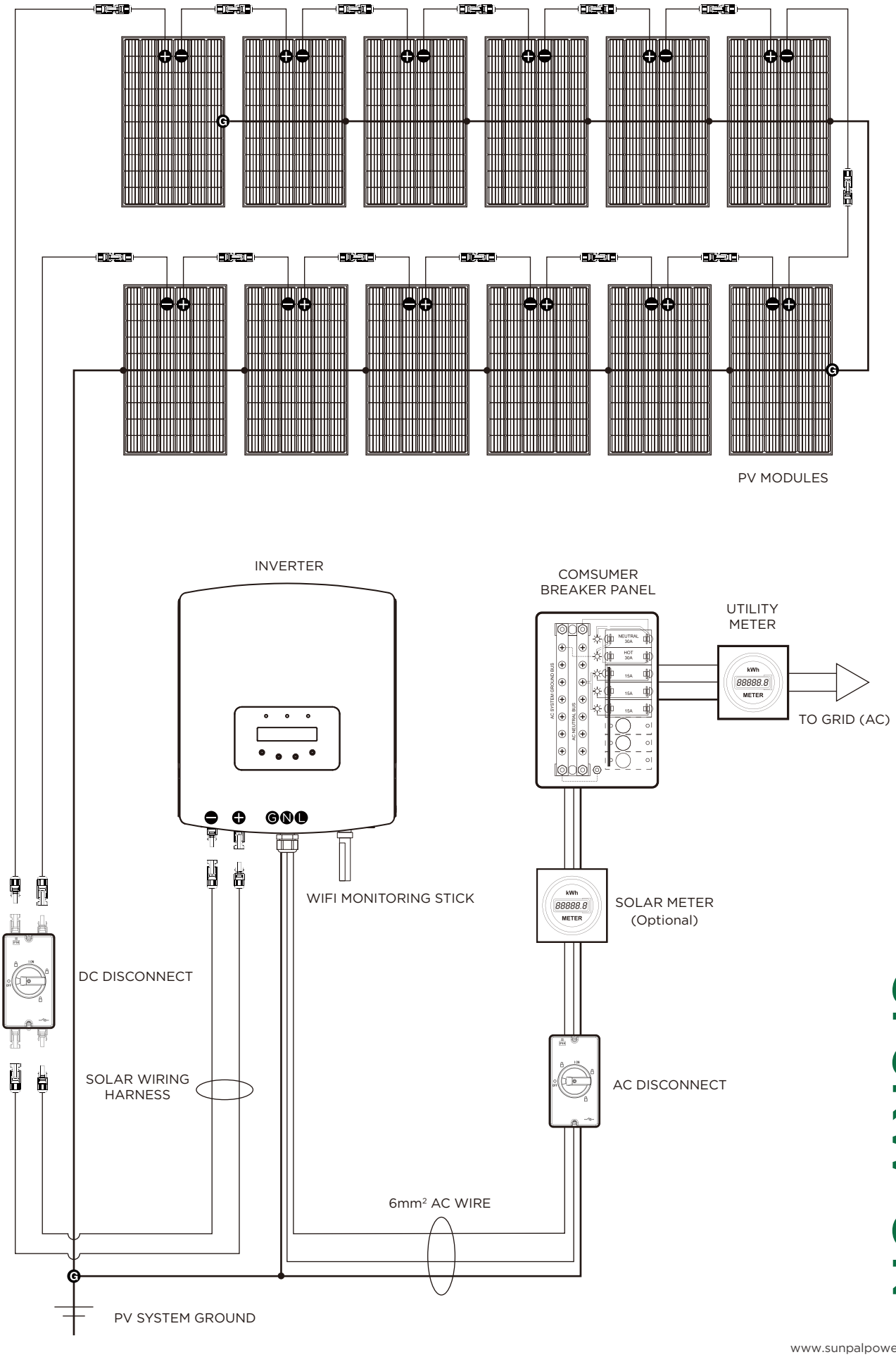
PV Kits

Include

- Solar modules
- Solar on-grid inverter
- Custom roof mounting system
- PV & ground wiring harnesses
- DC and AC disconnects
- Wire managerment kits



PRODUCT MODEL		SP3KW-ON	SP5KW-ON	SP10KW-ON
PV System Size Nominal(kWp)		3.36	5.68	11.2
PV MODULE SPECIFICATIONS(*Mono)				
Power (W)			280	
Vmp (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) / UL (UL1703)	
*Polycrystalline PV modules also available up on request				
INVERTER SPECIFICATIONS				
Inverter Size (Kw)		3	5	10
Max DC Power (W)		3500	5800	11500
Max DC Voltage (V)			600	
MPPT Voltage Range (V)		80-500	100-500	100-500
No. of MPPTS		1	2	3
Max AC Power (kVA)		3.3	5	10
Max Output Current (A)		15.7	21.7	45.9
AC Nominal Voltage/Voltage Range (V)			230 / 160 - 285	
AC Grid Frequency Range (Hz)			50 / 60	
Number of Phases			1	
Dimensions (W x H x D) (mm)		310 x 373 x 160	310 x 543 x 160	333 x 573 x 160
Inverter Weight (kg)		7.7	11.5	18
Certifications		UL 1741 / UL 1998 / UL 1699B / IEEE 1547 / FCC Part 15 (Class A & B) / CAN / CSA C2 EN50438 / G83/2 / G59/3 / AS4777.2: 2015 / VDE0126-1-1 / IEC61727 / VDEN4105		
*120V/240V UL inverters also available upon request				
BOS				
DC/AC Disconnect		1 / 1	2 / 1	4 / 1
*PV Wire Harness - 4mm (m)		100	200	400
*Ground Wire - 4mm (m)		30	50	100
*Extra wire is available up request				
SYSTEM LAYOUT				
Number of Modules		12	20	40
Number of Inverters		1	1	1
PV Array Surface Area (m^2)		20.4	34	68
PV Array Weight (kg)		223.2	372	744
PV Module String Configuration 600VDC	No. of PV Modules / String	12	10	10
	Total Strings	1	2	4
	String Voc (V)	465.6	388	388
	String Vmp (V)	381.6	318	318
	String Imp (A)		8.81	
PRODUCTION ESTIMATES (kWh AC)				
*Projectd Yearly Output at 4 PSH / Day		11.4	19.3	38.1
*Projectd Yearly Output at 5 PSH / Day		14.3	24.1	47.6
*Projectd Yearly Output at 6 PSH / Day		17.1	29.0	57.1
*Based on 85% system efficiency (formula = DC Power x Peak Sunshine Hours / Day x System Efficiency) (PSH = Peak Sunshine Hours)				
SYSTEM OPTIONS				
Monitoring Device			Wi-Fi Model or GPRS Model	
PV Module Type			Monocrystalline(Poly also available upon request)	
Mounting System Types			Metal Roof,Asphalt Shingle,Tile Roof,Tin Roof,Flat Concrete	
SHIPPING				
PV Kit Weight (kg)		375	585	1160
PV Kit Shipping Size		1.7 x 0.7 x 1	1.7 x 1.1 x 1	1.7 x 1.1 x 1
Total Number of Boxes		1	1	2


PV MODULES
INVERTER
COMSUMER
BREAKER PANEL
UTILITY
METER
TO GRID (AC)
WIFI MONITORING STICK
SOLAR METER
(Optional)
DC DISCONNECT
SOLAR WIRING
HARNESS
AC DISCONNECT
6mm² AC WIRE
PV SYSTEM GROUND

SP3KW-ON

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