



El kit solar 5 para viviendas aisladas 3000/6000 esta indicado para viviendas con nevera, tv, iluminación y lavadora en frío.

Este kit solar aislada 5 3000/5600 con baterías de gel es un sistema de 48v que dispone de un inversor de 5000w de potencia nominal. El kit solar tiene baterías de gel que no tienen mantenimiento y permanecen cargadas incluso después de largos períodos de no habitar la vivienda por lo que es ideal para viviendas de temporada.

Un ejemplo de utilización de consumos del kit solar seria:

- = Nevera A+ 200kwh año a diario
- Lavadora ciclo frio 2 veces por semana
- Microondas puntualmente
- Bomba de agua 1cv 60 minutos diarios
- television led 32 pulgadas (80w) 6 horas
- ordenador portátil

Todos nuestros kits solares vienen con el regulador de carga y el inversor configurado para la baterías del kit

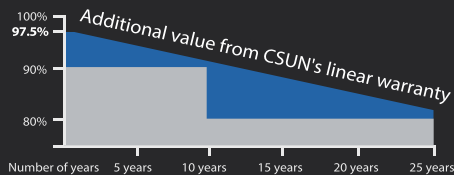
Nos interesa que el kit solar de aislada funcione perfectamente y nuestros clientes no tengan problemas en las baterías, normalmente el punto mas crítico de la instalación solar. Por eso programamos nuestras propias curvas de carga en todos los inversores híbridos y reguladores de los kits solares para la batería que adquiere el cliente. De esta forma solo tiene que preocuparse de conectarlo sin tener que programar nada, ya lo hacemos nosotros para sacar la maxima duración de sus baterías.

Galaxy Series Conventional Modules

The power output shall not be less than 97.5% of the minimum power output stated in the product data sheet in the first year of the product's life cycle. The loss of power output shall not exceed 0.7% per year thereafter, ending with 80.7% in the 25th year.

■ CSUN ■ Standard warranty

CSUN's NEW linear performance warranty



CSUN345 -72P

High efficiency PERC tech for esthetic applications

Module Fire Performance: Type 1 (UL 1703)

Fire Resistance Rating: Class C (IEC 61730)

CSUN345-72P

CSUN340-72P

CSUN335-72P

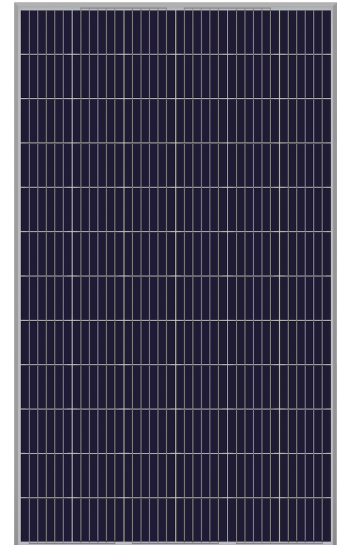
CSUN330-72P

17.78%
Module efficiency

345 W
Highest power output

10 yeras
Material & workmanship
warranty

25 yeras
Linear power output
warranty



Industry leading conversion efficiency



Certificated to withstand wind (2400 Pa) and snow load (5400 Pa)



Positive tolerance offer



Excellent performance under weak light condition



Passed salt mist & ammonia corrosion, blowing sand and hail testing



Good temperature coefficient enables better output in hot climates

* Note: All specifications, warranties, certifications about module of „CSUN“ series also apply to that of „SST“.

All information and data are subject to change without notice and are provided without liability.



www.csun-solar.com

Electrical Characteristics at Standard Test Conditions (STC)

Module Type	CSUN345-72P	CSUN340-72P	CSUN335-72P	CSUN330-72P
Maximum Power - Pmpp (W)	345	340	335	330
Positive Power Tolerance	0~3%	0~3%	0~3%	0~3%
Open Circuit Voltage - Voc (V)	46.5	46.3	46.2	46.1
Short Circuit Current - Isc (A)	9.60	9.50	9.37	9.28
Maximum Power Voltage - Vmpp (V)	38.2	38.1	37.9	37.8
Maximum Power Current - Imp (A)	9.04	8.94	8.84	8.75
Module Efficiency	17.78%	17.52%	17.26%	17.01%

Electrical data relates to standard test conditions (STC) : irradiance 1000W /m² ; AM 1.5 ; cell temperature 25°C measuring uncertainty of power is within ±3%. Certified in accordance with IEC61215, IEC61730-1/2 and UL 1703

Electrical Characteristics at Nominal Operating Cell Temperature (NOCT)

Module Type	CSUN345-72P	CSUN340-72P	CSUN335-72P	CSUN330-72P
Maximum Power - Pmpp (W)	251	247	244	243
Maximum Power Voltage - Vmpp (V)	42.9	42.7	42.6	42.6
Maximum Power Current - Imp (A)	7.73	7.65	7.55	7.48
Open Circuit Voltage - Voc (V)	35.1	35.0	34.9	34.8
Short Circuit Current - Isc (A)	7.16	7.09	7.00	6.99

Electrical data relates to nominal operating cell temperature (NOCT): irradiance 800W /m²; wind speed 1 m/s ; cell temperature 45°C; ambient temperature 20°C measuring uncertainty of power is within ±3%.

Temperature Characteristics

Voltage Temperature Coefficient	-0.292%/K
Current Temperature Coefficient	+0.045%/K
Power Temperature Coefficient	-0.408%/K

Maximum Ratings

Maximum System Voltage (V)	1000&1500
Series Fuse Rating (A)	20
Reverse Current Overload (A)	27

Mechanical Characteristics

Dimensions	1956 × 992 × 40 mm
Weight	22 kg
Frame	Anodized aluminum profile
Front glass	Toughened low iron glass, 3.2 mm
Cell Encapsulation	EVA (Ethylene-Vinyl-Acetate)
Back Sheet	Composite film
Cells	6x12 polycrystalline solar cells (5 BB 156.75 × 156.75 mm)
Junction Box	Rated current ≥ 13 A, IP ≥ 67 , TUV & UL
Cable	Length 900 mm, 1 × 4 mm²
Connector	Compatible with MC4

Packaging

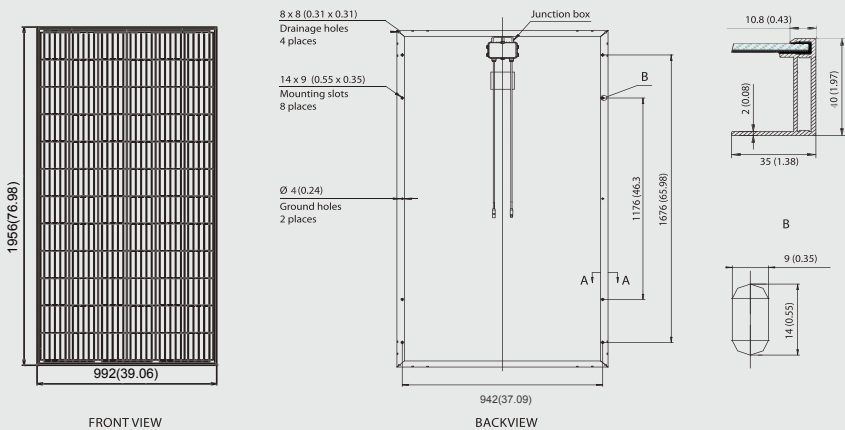
Container 20’	260 pcs.
Container 40’	624 pcs.
Container 40’HC	672 pcs.

System Design

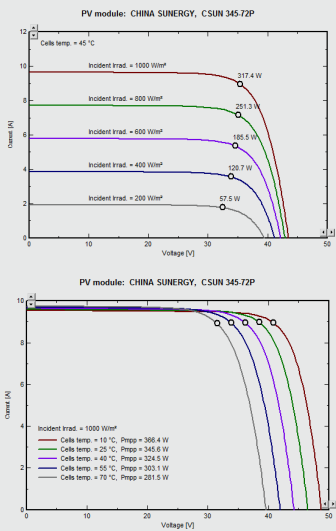
Temp. Range	-40°C to + 85°C
Hail	Max. diameter of 25mm with impact speed of 23m/s
Max. Capacity	Snow 5400 Pa, wind 2400 Pa
Application Class	A
Safety Class	II

Dimensions

Note: mm (inch)



IV-Curves





INVERSOR/CARGADOR AXPERT-V PARA FOTOVOLTAICA AISLADA



- Inversor solar de onda senoidal pura
- Carga de alta intensidad seleccionable
- Amplio rango de entrada DC
- Entrada de AC seleccionable para electrodomésticos y para ordenadores
- Prioridad entrada AC/solar programable via display LCD
- Compatible con entrada de grupo electrógeno o red
- Auto re-arme mientras AC se esté recuperando
- Protección contra sobrecarga y cortocircuitos
- Cargador de batería inteligente de 4 etapas para carga de baterías optimizada
- Función de arranque en frío



Kit anti-polvo (opcional)



Kit anti-polvo (opcional). El inversor detectará automáticamente si se ha instalado este Kit y activa el sensor de temperatura interna. Gracias al diseño anti-polvo el inversor mejora drásticamente su fiabilidad en los ambientes más adversos.

Gama de modelos inversores Axpert-V

MODELO	Axpert VP1000-12		Axpert VP2000-24	Axpert VP3000-24	Axpert VM3000-24	Axpert VM3000-24 Plus	Axpert VP5000-48	Axpert VM5000-48
Potencia nominal	1000VA/800W		2000VA/1600W		3000VA / 2400W		5000VA / 4000W	
ENTRADA								
Voltaje	230 VAC							
Rango volt. seleccionable	170-280 VAC (Para ordenadores); 90-280 VAC (Para electrodomésticos)							
Rango frecuencia	50 Hz/60 Hz (Detección automática)							
SALIDA								
Regulación voltaje AC (modo batería)	230VAC ± 5%							
Potencia pico	2000VA	4000VA	6000VA				10000VA	
Eficiencia (Pico)	90% - 93%							
Tiempo transferencia	10 ms (Para ordenadores); 20 ms (Para electrodomésticos)							
Forma de onda	Onda senoidal pura							
BATERIA								
Voltaje batería	12VDC	24 VDC				48 VDC		
Voltaje carga flotación	13.5 VDC	27 VDC				54 VDC		
Protección sobrevoltaje	16VDC	32 VDC				63 VDC		
REGULADOR SOLAR & CARGADOR AC								
Tipo regulador solar	PWM	PWM	PWM	MPPT		PWM	MPPT	
Voltaje máximo FV circuito abierto	50 VDC	80 VDC	80 VDC	102 VDC	145 VDC	105 VDC	145 VDC	
Máxima potencia FV	600 W	1200W	1200 W	1000W	1500W	2400 W	3000 W	
Rango MPP @ voltaje operativo	N/A	N/A	N/A	30 ~ 80 VDC	30-115 VDC	N/A	60-115 VDC	
Máxima potencia carga Solar	50 A	50 A	50 A	40 A	60 A	50 A	60 A	
Máxima potencia carga AC	20 A	20 A	25A		60 A			
Máxima potencia de carga	50 A	50 A	70A	60A	120A	110A	120A	
DIMENSIONES								
Dimensión, P xW xH (mm)	88x225x315		100x334x285		100x300x440			
Peso neto (kgs)	5.0	5.5	6.4	6.6	11	11	13	
Puerto comunicaciones	USB/RS232							
ENTORNO OPERATIVO								
Humedad	5% to 95% Humedad relativa (sin condensación)							
Temp. funcionamiento	-10°Cto50°C							
Temp. almacenamiento	-15°Cto60°C							

Las especificaciones pueden cambiar sin previo aviso

CYNETIC GC Gel Carbon

Gel Carbon batteries are true maintenance-free sealed batteries engineered specifically to satisfy the need for frequent deep cycles from photovoltaic (PV) and energy storage applications. We are confident that our technology-intensive, long-lasting, and environment friendly SG Series batteries will provide stability and efficiency for your everyday renewable energy needs.



UltraPress™ Grid Technology.
Patent pending grid compressing technology which increases the density of the lead grain of the grids. The grain density is typically 400% greater than that of the conventional casting method. This up-to-date grid technology enables our batteries to survive even the toughest deep discharge and PSoC applications.



TxPure™ GEL Technology
Application of refined pure thixotropic colloidal silica GEL technology to battery electrolyte has greatly increased the cycle life by both preventing plate stratification and providing extra temperature protection against heat and cold. Gel provides more ability to deep cycle applications and better recovery after deep discharge



SealFlex™ Anti Explosion Filter
Patent pending proprietary cap filtering and sealing technology. Battery cell caps are sealed simultaneously using specially designed o-rings and explosion filters to prevent leakage and gassing more effectively than ever before.

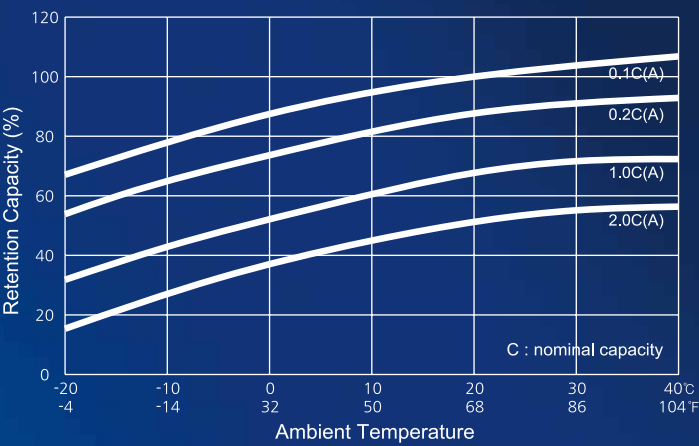


MicroCarbon™
In every battery, proprietary micro carbon additive is used in the active material for both positive and negative plates to enhance charge acceptance and cycle endurance. ActiveCarbon™ works to strengthen charge pathways to improve performance consistency and enhance performance at partial state of charge (PSoC) environment.

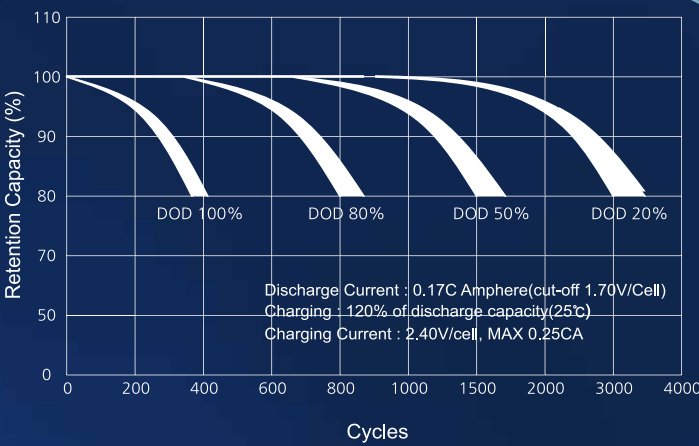


Fahrenheit-Schutz™ Heat Protection Case
Specially formulated heat and flame resistant polypropylene case material is used to effectively block ambient heat thus preventing heat related malfunctions such as thermal runaway. This proprietary high rigidity case material has heat deflection rating of 140°C and complies to RoHS Compliant EU Directive 2002/95/EC. Additional UL94-V0 protection option also available.

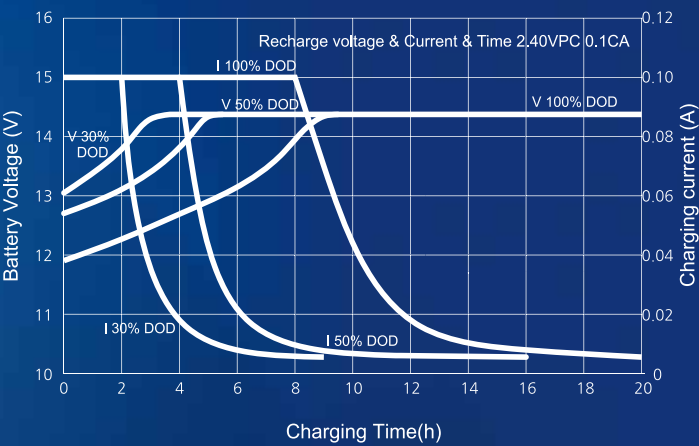
Effect of temperature on capacity



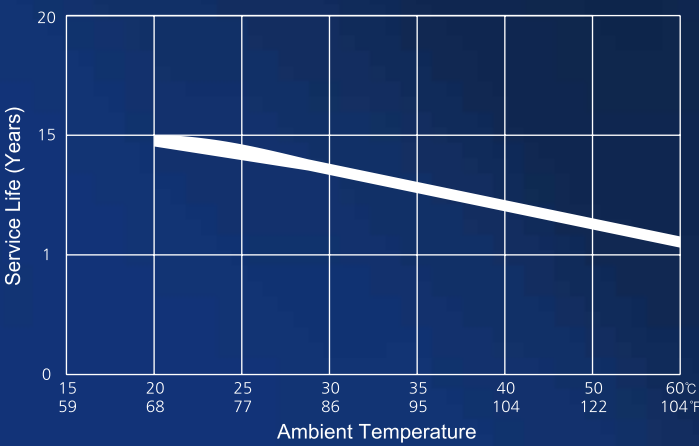
Cycle life characteristic



DOD % vs Recharging time curve



Floating life characteristics



12 Voltage GC Series Battery Specifications

Battery Type	(V)	Nominal Capacity				Dimension								Approx. Weight		Terminal type
		100H	20H	10H	5H	Length		Width		Height		T.Height				
		Final V.P.C (1.80) (1.80) (1.75) (1.70)				(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(Lb)	(kg)	(S)
GC 95H	12	95	80	76	70	368	14.49	172	6.77	210	8.27	219	8.62	59.4	27	N
GC 120H	12	120	100	95	87	368	14.49	172	6.77	210	8.27	219	8.62	66	30	N
GC 140H	12	140	120	114	104	368	14.49	172	6.77	210	8.27	219	8.62	72.6	33	N
GC 180H	12	180	150	143	131	522	20.55	240	9.45	215	8.46	221	8.70	103.4	45	N
GC 235H	12	235	200	190	174	522	20.55	240	9.45	215	8.46	221	8.70	126.4	58	N
GC 250H	12	250	220	210	191	522	20.55	240	9.45	215	8.46	221	8.70	131.2	60	N