

All-in-one AC Coupled Unit

3.0K/3.6K/4.0K/4.6K/5.0K/6.0K



Flexibility

Compatible with on-grid photovoltaic systems, easy retrofits.

Integrated design with battery, can be installed as a standalone unit Extra batteries can be added.

Multi operating modes optional.

Reliability

IP65, suitable for indoor & outdoor usage.

Cooling by natural convection, No noisy fans.

High-frequency isolation between battery and inverter, resulting in much safer system.

Usability

Higher charge & discharge efficiency.

Selectable monitoring modes.

3000VA emergency power supply.

Precise reverse flow prevention, adjustable self-consumption ratio.



VDE 0126

VDE 4105

CEI 0-21

G98

IEC/EN 62619

UN38.3

AS4777

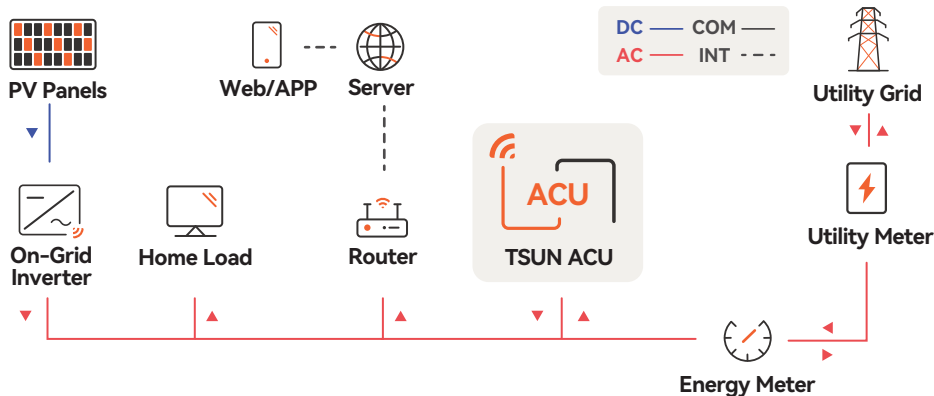
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Technical Data

Model	TSOL-ACU3.0K	TSOL-ACU3.6K	TSOL-ACU4.0K	TSOL-ACU4.6K	TSOL-ACU5.0K	TSOL-ACU6.0K
Battery Data						
Battery Type	LiFePO4					
Battery Capacity per Kit [kWh]	5.12					
Battery Voltage per Kit [V]	51.2					
Max. Battery Quantities per System	4 (Up to 20.48 kWh)					
Max. Charging Power [W]	3000	3600	4000	4600	5000	6000
Max. Charging/ Discharging Current [A]	60/60	72/72	80/80	92/92	100/100	120/120
AC Input & Output [On-grid]						
Rated Output Power[W]	3000	3600	4000	4600	5000	6000
Max. Output Power [VA]	3300	3680	4400	4600	5500	6000
Rated Output Current [A]	13	16	17.4	20	21.7	26.1
Max. Output Current [A]	15	16.7	20	23	25	27.3
Rated Output Voltage [V]	220/230/240, L/N/PE					
Rated Grid Frequency [Hz]	50/60					
Power Factor [cos φ]	0.8 leading~0.8 lagging					
Total Harmonic Distortion [THDi]	<3%					
AC Output [Back-up Mode]						
Rated Output Power [W]	3000	3600	4000	4600	5000	6000
Max. Output Current [A]	15	16.7	20	23	25	27.3
Rated Output Voltage [V]	220 / 230 / 240, L/ N/ PE					
Rated Output Frequency [Hz]	50/60					
Total Harmonic Distortion of Voltage	<3%					
Switch Time [ms]	<20					
Peak Output Apparent Power [VA]**	3600VA, 60sec	4200VA, 60sec	4800VA, 60sec	5500VA, 60sec	6000VA, 60sec	7200VA, 60sec
Efficiency						
Max. Battery Charging/ Discharging Efficiency	95% / 95%					
Protection			General Data			
Battery Input Reverse Polarity Protection	Integrated		Topology	Transformerless		
AC Short Circuit Protection	Integrated		Ingress Protection	IP65		
Overload Protection	Integrated		Operating Temperature Range	-30~+60°C		
Surge Protection	Integrated		Ambient Humidity	0~100%		
Residual Current Protection	Integrated		Altitude	4000m(>3000m power derating)		
AC Overvoltage/Undervoltage Protection	Integrated		Noise[dBA]	<25		
AC Overfrequency/Underfrequency Protection	Integrated		Cooling method	Natural Convection		
Over Temperature Protection	Integrated		Dimensions[H*W*D][mm]	408x652x195 (Inverter)/388x652x195 (Battery)		
Anti-islanding protection	Integrated		Weight[kg]	20 (Inverter)/50 (Battery)		
Interface			Standard Warranty [Inverter]	5 years		
Battery Connection Type			Standard Warranty [Battery]	10 years or 6000 cycle 80% DoD (whichever comes first)		
AC Connection Type	Plug-in Connector					
Communication	Wi-Fi / 4G(Optional)					

Diagram



For more information , visit / contact us at www.tsun-ess.com

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