

# TSUN

## All-in-one AC Coupled Unit



### TSOL-ACU3.0K



#### Flexibility

- Compatible with on-grid photovoltaic systems, easy retrofits.
- Integrated design with battery, extendable batteries optional.
- Multi operating modes optional.

#### Reliability

- IP65, suitable for indoor & outdoor usage.
- Natural convection, no air fans.
- High-frequency isolation between battery and inverter, much safer.
- Intelligent battery management system, longer life time.

#### Usability

- Higher charge & discharge efficiency.
- Multi monitoring modes optional.
- 3000VA emergency power supply.
- Precise reverse flow prevention, adjustable self-consumption ratio.

CE VDE 0126 VDE 4105 CEI 0-21 G98 IEC/EN 62619 UN38.3 AS4777



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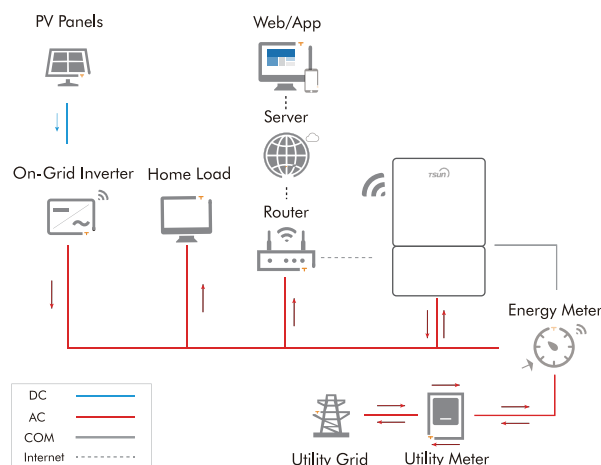
Add: Chuangye Road, Dayun Town, Jiashan County, Zhejiang Province, China

# Technical Data

Model	TSOL-ACU3.0K
<b>Battery parameters</b>	
Battery Type	Lithium-ion
Nominal Battery Voltage [V]	51.2
Battery Voltage Range [V]	42 - 58.4
Nominal Battery Capacity [kWh]	5.12
Expansion Battery Capacity [kWh]	5.12(TSOL-B100E-S)
Storage System Capacity [kWh]	5.12/10.24/15.36/20.48 optional
Max. Charging Current [A]	60
Charging Current Range [A]	0 - 60 (programmable)
Charging Curve	2-stage adaptive with maintenance
Max. Discharging Current [A]	60
Electronic Protection	OCP OTP OVP
Short Circuit Protection	Fuse (100A)
<b>AC Parameters</b>	
Max. Output Power [VA]	3000
Nominal AC Voltage [V]※	220/230/240, L/N/PE
Max. AC Current [A]	13.1
AC Voltage Range [V]	180 - 280
Frequency※	50/60
THDi	< 3%
Power Factor	1 default (± 0.8 adjustable)
<b>System Parameters</b>	
Max. Charging Efficiency	94%
Max. Discharging Efficiency	94%
Standby Loss [W]	< 8
Topology	High Frequency Insolation (For Battery)
Degree of Protection	IP65
Safety Protection	Anti-islanding, RCMU, Ground Fault Monitoring
Certification	CE-LVD, CE-EMC, VDE 0126, VDE 4105, CEI0-21, G98,AS4777, IEC/EN62619, UN38.3
Communication	WiFi, GPRS, Ethernet
<b>Environmental</b>	
Ambient Temperature Range [°C]	0~50
Allowable Relative Humidity Range	0 - 95%, No Condensing
Protective Class	Class I
Max. Operating Altitude [m]	4000 (Derating above 3000m)
<b>General Data</b>	
Noise [dB]	< 29
Weight [kg]	64
Cooling	Natural
Dimension (W*H*D) [mm]	650 x 738 x 186
Warranty	Inverter 5 years, Battery Capacity 10 years
<b>Emergency Power Supply</b>	
Nominal EPS Power [VA]	3000
Nominal EPS Voltage/Frequency	230 V, 50 / 60 Hz
THDV	< 3%
Over Load	3600VA (10s, 120%)

※ The AC voltage and frequency range may vary depending on specific country grid.

## Diagram



## Ordering Information

Ordering NO.	Model	Description
04.03.01.001	TSOL-ACU3.0K	AC coupled unit, output 3kW, battery 5.12kWh
04.03.01.002	TSOL-B100E-S	Expansion battery, 5.12kWh
04.03.02.001	Meter-SACU	Meter, single phase, optional
04.03.02.002	Meter-TACU	Meter, three phase, optional
04.03.02.003	Stick Logger-ACU	Stick logger, WiFi

For more information, visit/contact us at [www.tsun-ess.com](http://www.tsun-ess.com)