

Three phase inverters 18 to 25 kW

ASW UT-G3 Series



Models:
ASW18K-UT-G3
ASW20K-UT-G3
ASW25K-UT-G3



Easy-to-install

- Quick & easy-to-install with basic tools
- Quick setup and commissioning with Solplanet apps
- Compact wall mount design



Reliable

- International quality standards
- 150 % PV array oversizing for higher yields
- IP66 rated design for outdoor use



User-Friendly

- Max 32 A MPPT input current, ideal for bifacial and large area PV modules
- 3 MPPT's for flexible PV array design
- ShadeSol shadow management

Technical Datasheet

ASW18K-UT-G3

ASW20K-UT-G3

ASW25K-UT-G3

Input (DC)	Max. PV array power	27000 Wp STC	30000 Wp STC	37500 Wp STC
	Max. input voltage	800 V		
	MPP voltage range / rated input voltage	180 V to 650 V / 360 V		
	Min. input voltage	160 V		
	Initial. feed-in voltage	200 V		
	Max. operating input current	32 A / 32 A / 32 A		
	Max. short circuit current	48 A / 48 A / 48A		
	No. of independent MPPT inputs / strings per MPPT input	3 / A:2;B:2;C:2		
Output (AC)	Rated active power	18000 W	20000 W	25000 W
	Max active power	18000 W@ 230V	20000 W@ 230V	25000 W@ 230V
	Max. apparent power	18000 VA@ 230V	20000 VA@ 230V	25000VA@ 230V
	AC nominal voltage	133 V / 230 V	133 V / 230 V	133 V / 230 V
	AC grid frequency / range	50 Hz / 45 Hz - 55 Hz 60 Hz / 55 Hz - 65 Hz		
	Max. output current	45.2 A	50.2 A	62.8 A
	Adjustable power factor range	0.8 leading to 0.8 lagging		
	Feed-in phases	3 / 3-PE		
	Harmonic distortion (THD) at rated output	< 3%		
	Efficiency & Protection	Max. efficiency / European efficiency	98.3% / 97.8%	
DC Switch		●		
Ground fault monitoring / grid monitoring		● / ●		
DC reverse polarity protection / AC short circuit protection		● / ●		
All-pole-sensitive residual-current monitoring unit		●		
Anti-islanding Protection		●		
Surge Protection		● / Type II		
Protection class (according to IEC 62109-1) / overvoltage category (according to IEC 62109-1)		I / AC: III; DC: II		
General data	Dimensions (W / H / D)	543 / 520 / 235 mm		
	Weight	30kg		
	Operating temperature range	-25°C ... +60°C		
	Self-consumption (at night)	< 1 W		
	Topology	Non-isolated		
	Cooling concept	Active cooling		
	Degree of protection (according to IEC 60529)	IP66		
	Climatic category (according to IEC 60721-3-4)	4K4H		
	Max. permissible value for relative humidity (non-condensing)	100%		
	Max. operating altitude	3000 m		
Features	DC connection	Plug-in connector		
	AC connection	Plug-in connector		
	Mounting type	Wall-mount bracket		
	LED Indicators (Status / Fault / Communication)	●		
	Communication interface ¹	●/●/●/○(RS485 / Wi-Fi / LAN / 4G)		
	Country of manufacture	China		
	Certificates and approvals (more available on request)	IEC 62109, IEC 61000-6, EN 62920, EN 50549-1		

● Standard features / ○ optional features / – not available

1- Zero export installations supported with 2-pin RS485 for connection to approved smart meters

Data at nominal conditions. All information is subject to change.

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