

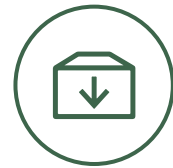
Single-phase hybrid inverter 3–6kW

PVS-AS-G2 Series



Modell

- PVS-AS3k-G2
- PVS-AS3.68k-G2
- PVS-AS4k-G2
- PVS-AS5k-G2
- PVS-AS6k-G2



Easy-to-install

- Quick & easy-to-install with basic tools.
- Battery and smart meter interface.
- Compact Wall-Mounted design.



High reliability

- Smart energy management.
- USP capability-power during blackouts.
- IP66 rated design for outdoor use.



User-friendly

- User friendly App interface.
- Online monitoring via Wi-Fi and PVSTAR Apps.
- Easy to connect-battery and smart meter interface.



Model	PVS-AS3k -G2	PVS-AS3.68k -G2	PVS-AS4k -G2	PVS-AS5k -G2	PVS-AS6k -G2
DC input					
Max. PV input power	5500Wp	6180Wp	6500Wp	7500Wp	9000Wp
Max. PV input voltage	550V				
MPPT voltage range/Rated input voltage	40V~530V/380V				
Min. input voltage/Start-up voltage	40V/50V				
No. of MPPTs/No. of PV strings per MPPT	2/1				
Max. input current per MPPT	16A				
Max. short-circuit current per MPPT	20A				
Battery input					
Nominal battery voltage	48V				
Battery voltage range	40V~60V				
Max. charging/Discharging power	5000W/5000W				
Max. charging/Discharging current	100A/100A				
Battery type	LiFePO4				
Compatible Battery	PVS-LB and PVS-LBS Series				
AC output					
Voltage range/Rated AC voltage	180V~280V/230V				
Rated grid frequency	50Hz/60Hz				
AC Grid frequency range	45~55Hz/55~65Hz				
Rated active power	3000W	3680W	4000W	5000W ^{*1}	6000W
Rated apparent power	3000VA	3680VA	4000VA	5000VA ^{*1}	6000VA
Max.apparent power	3000VA	3680VA	4000VA	5000VA ^{*1}	6000VA
Rated grid output current(@ 230V)	13.1A	16A	17.4A	21.7A ^{*2}	26.1A
Max. grid output current	13.6A	16A	18.2A	22.7A ^{*2}	27.3A
THDi(@ Nominal power)	< 3%				
AC input					
Rated grid voltage	a.c.230V				
Rated grid frequency	50Hz/60Hz				
Rated apparent power	6000VA				
Max. input apparent power from grid	6000VA				
Rated input current from grid	a.c.26.1A				
Max. input current from grid	a.c.27.3A				
AC output(EPS)					
Nominal output voltage	a.c.230V				
Nominal output frequency	50Hz/60Hz				
Rated apparent power	5500VA				
Max. output apparent power	5500VA				
Peak output apparent power, time	7500VA,10s				
Rated current(@230 V)	21.7A				
Max. output current	21.7A				
Max. switch time	≤10ms				
Output THDi(@Linear load)	< 3%				
Efficiency					
MPPT efficiency	99.9%				
European efficiency/Max. efficiency	97.0%/97.6%				
Max. battery to load efficiency	94.70%				
Safety protection					
DC-side disconnection device	●				
PV string-/Battery input reverse polarity protection	●/●				
All-pole sensitive residual current monitoring unit	●				
Anti-islanding protection	●				
Ground fault protection	●				
AC output over current/Short circuit current protection	●/●				
AC over voltage protection	●				
Protection class(IEC 62109-1)/Overvoltage category(IEC 62109-1)	I/AC:III;DC:II				
General data					
Power factor at rated power/Adjustable displacement	≥0.99/0.8 leading to 0.8 lagging				
Dimensions(W/H/D)	483mm/455mm/193.5mm				
Device weight	25.1kg				
Operating temperature range	-25°C~+60°C				
Noise emissions(Typical)	30dB(A)				
Standby consumption	< 10W				
Cooling concept	Natural Convection				
Degree of protection(As per IEC 60529)	IP66				
Climatic category(According to IEC 60721-3-4)	4K4H				
Max. permissible value for relative humidity(Non-condensing)	100%				
Max. operating altitude	4000m(> 3000m power derating)				
Features					
User interface	LED & APP				
Communication with BMS	CAN				
Communication with smart meter	RS485				
Communication with portal	WIFI Stick				
Other communication	DRM				
Integrated power control/Zero export control	● / ●				
Certification	IEC 62109-1/-2,IEC 61000-X ³ , IEC 50549-1,CEI 0-21,VFR 2019 & VDE 0126-1, IEC 61727, IEC 62116, IEC 61683, RD 1699, UNE 217001, NTS 631 Type A				

●Standard features/○Optional features/-not available

*1 For VDE-AR-N4105, S_{max}=S_n=4600VA, P_n=4600W

*2 For AS/NZS4777.2, I_{ac max}=21.7A

*3 "X" stands for 2-2, 3-2, 3-12, 4-2, 4-5, 4-8, 4-34, 6-1, 6-2, 6-3, 6-4