

JUSTSTANDOUT SMART STRING INVERTER



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Bridging the kilowatt divide one installation at a time.

KEY FEATURES FOR JSO SMART PV INVERTERS

- Lower CAPEX Investment vs BESS | Lower CAPEX Investment
- Supports VSG function, particularly suitable for areas with unstable grid.
- Diesel Gen Application
- String Intelligent Monitoring
- Low Maintenance (IP65 Rated)
- Compatible with Juststandout Smart Hybrid Inverter
- Wide output voltage range
- Zero power export to the grid
- Panel protection from voltage degradation
- Smart Cooling

8kW

- Max. Input Power up to 10.4kW, Max. Efficiency up to 97.7%

12kW

- Max. Input Power up to 15.6kW, Max. Efficiency up to 98.3%

50kW

- Max. Input Power up to 65kW, Max. Efficiency up to 98.7%
- Significantly reduce electricity bills by using the Juststandout Smart PV Inverter to power offices/factories/machineries.



JSO80500PV (8kW)



JSO1201000PV (12kW)



JSO5001000PV (50kW)

Solution

Commercial



Off grid



Diesel/Gas



Grid tie



Model	JSO80550PV	JSO1201000PV	JSO5001000PV
Input			
Max. DC Input Power(kW)	10.4	15.6	65
Max. DC Input Voltage(V)	550	1000	1000
Start-up DC Input Voltage(V)	80	250	250
MPPT Operating Range(V)	70~500	200~849	200~850
Max. DC Input Current(A)	13+26	13+13	40+40+40+40
Max Short Circuit Current(A)	19.5+39	19.5+19.5	60+60+60+60
Number of MPPT/Strings per MPPT	2/1+2	2/1	4/3
Output			
Rated Output Power(kW)	8	12	50
Max Active Power(kW)	8.8	13.2	55
Nominal Output Voltage/Range(V)	L/N/PE 220V/187V-242V, 230V/ 195.5V-253V (Optional)	3L/N/PE 380V/323V-418V,400V/340V-440V	3L/N/PE 380V/323V-418V,400V/340V-440V
Rated Grid Frequency(Hz)	50/60 (Optional)	50/60 (Optional)	50/60 (Optional)
Operating Phase	Single phase	50/60 (Optional)	Three Phase
Rated AC Grid Output Current(A)	34.8	17.4	72.4
Max. AC Output Current(A)	38.3	19.1	79.7
Output Power Factor	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging
Grid Current THD	<3%	<3%	<3%
DC Injection Current(mA)	<0.5%	<0.5%	<0.5%
Grid Frequency Range	47~52 or 57~62 (Optional)	47~52 or 57~62 (Optional)	47~52 or 57~62 (Optional)
Efficiency			
Max. Efficiency	97.70%	98.30%	98.70%
Euro Efficiency	97.50%	97.50%	98%
MPPT Efficiency	>99%	>99%	>99%
Protection			
DC Reverse-Polarity Protection	Yes	Yes	Yes
AC Short Circuit Protection	Yes	Yes	Yes
AC Output Overcurrent Protection	Yes	Yes	Yes
Output Overvoltage Protection	Yes	Yes	Yes
Insulation Resistance Protection	Yes	Yes	Yes
Ground Fault Monitoring	Yes	Yes	Yes
Islanding Protection	Yes	Yes	Yes
Temperature Protection	Yes	Yes	Yes
Integrated DC Switch	Yes	Yes	Yes
Remote Software Upload	Yes	Yes	Yes
Remote change of operating parameters	Yes	Yes	Yes
Surge protection	DC Type II/AC Type II	DC Type II/AC Type II	DC Type II/AC Type II
General Data			
Size(mm)	330Wx410Hx198.5D	330Wx457Hx205D	647.5Wx537Hx303.5D
Weight(kg)	15.7	11	44.5
Topology	Transformerless	Transformerless	Transformerless
Internal Consumption	<1W(Night)	<1W(Night)	<1W(Night)
Running Temperature	-25~65°C, >45°C derating	-25~65°C, >45°C derating	-25~65°C, >45°C derating
Ingress Protection	IP65	IP65	IP65
Noise Emission(Typical)	<25dB	<25dB	<45 dB
Cooling Concept	Natural cooling	Natural cooling	Smart cooling
Max. Operating Altitude without Derating	2000m	2000m	2000m
Designed Lifetime	>20years	>20years	>20years
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-9	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-10	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
Operating Surroundings Humidity	0-100%	0-100%	0-100%
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-0	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-1	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2
Features			
DC Connection	MC-4 mateable	MC-4 mateable	MC-4 mateable
AC Connection	1P65 rated plug	1P65 rated plug	1P65 rated plug
Display	LCD1602	LCD1602	LCD 240 x 160
Interface	RS485/RS232/Wifi/LAN	RS485/RS232/Wifi/LAN	RS485/RS232/Wifi/LAN