



The Energy Warriors



JUSTSTANDOUT SMART HYBRID INVERTER CATALOGUE



 Info@juststandout.com

 +234 903 626 1080

 Juststandout.com

 Theenergywarriors.com

Juststandout Smart Hybrid Inverter

Bridging the kilowatt divide one installation at a time.

Best ROI (return on investment)

- Programmable multiple operation modes: On grid, Off grid and UPS inverter, AC charger, Solar controller, monitoring dongle and CT included as a complete package drastically reducing CAPEX.
- Supports peak load up to twice the output rating maximizing self-consumption and can power loads not connected to the Inverter.
- Option for smart load connection based on battery level and grid availability In-built 2 or 4
- MPPT to maximize PV power and take advantage of multiple roof orientations.
- Smart settable 3 stages MPPT charging and AC charger for optimized battery performance.
- Configurable Solar/AC/Generator charging priority by LCD setting.

Flexible and Scalable

- Single or 3 phase can parallel up to 16 inverters for 5Kw to 192Kw output.
- Connect your generator directly to your inverter no need for automatic change over.
- Close loop compatibility with Pylontech Lithium-ion batteries and other batteries.
- Supports DC-coupled and AC-coupled off-grid and grid-tie architectures with one of the easiest configurations in the industry.
- Programmable supply priority for battery or grid.
- Supports WIFI/GPRS monitoring on mobile phones, tablets and computers.

Easy Installation

- Inverter, AC charger, Solar controller all in one box, while monitoring dongle and CT are just an easy connection
- Extensive historical parameters for monitoring, predictive and diagnosing data.
- Option to connect the string Inverter to increase PV installation capacity.
- Configurable battery charging current/voltage based on applications by LCD setting.

Easy Maintenance

- Overload/ over temperature/ short circuit protection.
- Limit function to prevent excess power over flow to the grid.
- Field serviceable with replacement boards and spare parts.
- Supports WIFI/GPRS remote monitoring and configuration including alerts.
- Real time touch screen LCD display.
- IP65 protection degree. Screen LCD display.



Juststandout 5kw JSO504865



Juststandout 8kw JSO8048104



Juststandout 3P 12kw JSO12048156



Juststandout 16kw JSO16048208

Solutions

Residential



Commercial



Off grid



Energy storage system



Grid tie



Model	JSO504865	JSO8048104	JSO16048208	JSO12048165
Output Frequency and Voltage	50/60Hz; 220/230/240 Vac (single phase)	50/60Hz; 220/230/240 Vac (single phase)	50/60Hz; 220/230/240 Vac (single phase)	50/60Hz; 220/230/240 Vac (Three phase)
Battery Input Data				
Inbuilt Battery Breaker	NO	NO	YES	NO
Battery Type	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion	Lead-acid or Lithium-ion
Battery Voltage Range(V)	40-60V	40-60V	40-60V	40-60V
Max Charging Current (A)	120A	190A	290A	240A
Max Discharging Current (A)	120A	190A	290A	240A
Charging Curve	3 Stages/Equalization	3 Stages/Equalization	3 Stages/Equalization	3 Stages/Equalization
External Temperature Sensor	Optional	Optional	Optional	Optional
Charging Strategy for LI-ion Battery	Self- adaptation to BMS			
PV String Input Data				
Max DC Input Power (W)	6500W	10400W	20800W	15600W
PV Input Voltage (V)	370V (100V-500V)	370V (100V-500V)	370V (100V-500V)	550V (150V-800V)
MPPT Range (V)	125-425V	125-425V	125-425V	200-650V
Full Load DC Voltage Range	240-425V	240-425V	240-425V	240-650V
Start-up Voltage (V)	150V	150V	150V	150V
PV Input Current (A)	13A + 13A	18A + 18A	26A + 26A + 26A	26A + 13A
No of MPPT Trackers	2	2	3	2
No of Strings Per MPPT Tracker	1 + 1	2 + 2	2 + 2 + 2	2 + 1
AC Output Data				
AC Inbuilt breaker	NO	NO	NO	YES
Rated AC Output and UPS Power (W)	5000W	8000W	16000	12000W
Max AC Output Power (W)	5500W	8800W	17600W	13200W
Peak Power (offgrid)	2 times of rated power, 10S			
AC Output Rated Current (A)	21.7A	33.4A/35A	69.6A	18A
Max AC Current (A)	25A	38.3A/40A	38.3A/40A	27A
Max Continuous AC Passthrough (A)	35A	90A	100A	50A
Power Factor	0.8 leading to 0.8 lagging			
Grid Type	Single phase	Single phase	Single phase	Three phase
Current Harmonics Distortion	THD<3% (Linear Load<1.5%)	THD<3% (Linear Load<1.5%)	THD<3% (Linear Load<1.5%)	THD<3% (Linear Load<1.5%)
Efficiency				
Max Efficiency	97.60%	97.60%	97.60%	97.60%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%
Protection				
PV Input Lighting Protection	Integrated	Integrated	Integrated	Integrated
Anti-Islanding Protection	Integrated	Integrated	Integrated	Integrated
PV String Input Reverse Polarity Protection	Integrated	Integrated	Integrated	Integrated
Insulation Resistor Detection	Integrated	Integrated	Integrated	Integrated
Residual Current Monitoring Unit	Integrated	Integrated	Integrated	Integrated
Output Over Current Protection	Integrated	Integrated	Integrated	Integrated
Output Shorted Protection	Integrated	Integrated	Integrated	Integrated
Output OverVoltage Protection	Integrated	Integrated	Integrated	DC Type II/ AC Type II
Certifications and Standards				
Grid Regulation	VDE0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05	VDE0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05	VDE0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05	VDE0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05
Safety Regulation	IEC62109-1, IEC62109-2	IEC62109-1, IEC62109-2	IEC62109-1, IEC62109-2	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3	EN61000-6-1, EN61000-6-3	EN61000-6-1, EN61000-6-3	EN61000-6-1, EN61000-6-3, FCC 15 class B
General Data				
Operating Temperature Range °C	-25-60°C >45°C Derating	-25-60°C >45°C Derating	-25-60°C >45°C Derating	-25-60°C >45°C Derating
Cooling	Fan	Fan	Fan	Smart Cooling
Noise (dB)	<30	<30	<30	<30
Communication with BMS	RS485; CAN	RS485; CAN	RS485; CAN	RS485; CAN
Weight (KG)	20.5	32	32	36.8
Size(Length*Width*Height mm)	580X330X208 mm	670 X 420 X 233mm	464W×798.4H×300D (mm)	422X658X281
Protection Degree	IP65	IP65	IP65	IP65
Installation Style	Wall-mounted	Wall-mounted	Wall-mounted	Wall-mounted
Warranty	5 years (3+2 online registration)			