

DSR-R GridVerter™

Intelligent Hybrid Inverters - G83/2 Compliant



Residential

DSR-R2.0 / R3.0 / R4.0

2.0 to 4.0 kW

The new DSR-R GridVerter range - designed for residential installations in the UK.



The all-in-one energy storage inverter

DSR-R GridVerter are G83/2 compliant intelligent hybrid inverters that allow you to use energy, store energy or feed it to the grid, on demand.

They combine a MPPT solar charge controller, inverter, battery charger, UPS, and AC distribution. Remote communication allows demand-side-response functionality including programmable control of energy import and export and management of up to 5 critical AC loads per unit. Up to 3 units can be connected in parallel for larger installations.

Uninterrupted power for on & off grid installations

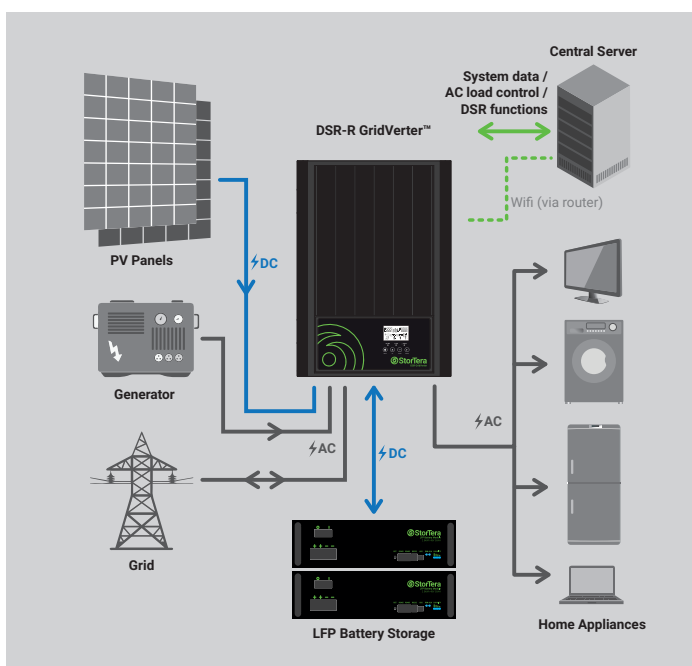
In the event of a grid failure, DSR-R GridVerter operate as a UPS/off-grid inverter with fully programmable supply priority.

Millisecond switching times and ATS functionality mean computers and other electronic equipment will continue to operate without disruption using battery or generator power.

Safe and versatile

Incorporating built-in protection from overload, short circuit, and deep discharge, the DSR-R GridVerter family also features a cold start function.

Advanced WiFi, USB or RS232 communication interfaces combined with Modbus RTU communication protocol gives remote access to real-time performance data, AC critical load management and allow the inverter to be easily integrated within any smart environment and with third party monitoring and control systems.



Complete Functionality.

- Pure sine wave output
- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, battery, generator or grid
- Advanced MPPT
- Programmable multiple operation modes: Grid-tie, off-grid and grid-tie with backup
- Built-in programmable timers
- Multiple communication options: WiFi, USB, RS232: Modbus RTU communication protocol
- StorTera software for real-time status display and DSR & AC load control
- Parallel operation - up to 3 units

DSR-R GridVerter™ Multifunction DSR Energy Storage Inverters

Specifications

MODEL	DSR-R2	DSR-R3	DSR-R4
PRODUCT CODE	DSR-R2 GV2048	DSR-R3 GV3048	DSR-R4 GV4048
RATED POWER	2000 W	3000 W	5000 W
INVERTER OUTPUT			
Nominal Battery system Voltage	48 VDC		
Surge Power	4000 W	6000 W	10000 W
Waveform	Pure Sine Wave		
AC Voltage Regulation	220VAC/230VAC/240VAC±5% (Battery Mode)		
Electric Current	8.7 A	13 A	17.4 A
Output Frequency	50Hz/60Hz Auto Sensing		
THD (Linear loads)	Off grid ≤2%		
	Grid discharge ≤3%		
	Grid charge ≤3%		
Inverter Efficiency	93% (Peak)		
Transfer Time	10ms (max)		
AC INPUT			
Voltage	230 VAC		
Selectable Voltage Range	170~280VAC(For Personal Computers) / 90~280VAC(For Home Appliances) / 184~253VAC(VDE4105)		
Frequency Range	50Hz/60Hz Auto Sensing		
BATTERY			
Normal Voltage	48 VDC		
Floating Charge Voltage	54 VDC		
Overcharge Protection	60 VDC		
SOLAR & AC CHARGER			
Maximum PV Array Open Circuit Voltage	145 VDC		
PV Array MPPT Voltage Range	30~130 VDC	64~130 VDC	
Standby Power Consumption	2 W		
Rated Power	2000 W	4000 W	4000 W
Maximum Solar Charge Current	60 A		
Maximum Efficiency	98%		
Maximum AC Charge Current	40 A	60 A	80 A
MECHANICAL SPECIFICATIONS			
Product Dimensions (W*H*D)	337*462*183 mm	337*462*183 mm	370*462*183 mm
Net Weight	25 Kg	29.5 Kg	35 Kg
Package Dimensions (W*H*D)	476*602*325 mm	476*602*325 mm	476*602*325 mm
Gross Weight	30.3 Kg	33 Kg	38.5 Kg
OTHER			
Humidity	5% to 95% Relative Humidity (Non-condensing)		
Operating Temperature	-5°C ~ +55°C		
Storage Temperature	-15°C ~ 60°C		
Certification	G83/2, IEC61727:2004		
Warranty	5 Year Manufacturer Warranty		

Product specifications subject to change without prior notice.

