

DSR-I GridVerter™

Intelligent Hybrid Inverters - G59/3 Compliant



Commercial & Industrial

DSR-I5.0 / I10.0

5.0 to 10.0 kW

The new DSR-I GridVerter range - designed for commercial and industrial installations.



The all-in-one energy storage inverter

DSR-I GridVerter are G59/3 compliant intelligent hybrid inverters that allow you to use energy, store energy or feed it to the grid, on demand.

They combine a dual 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 6 units can be connected in parallel for larger installations.

Uninterrupted power for on & off grid installations

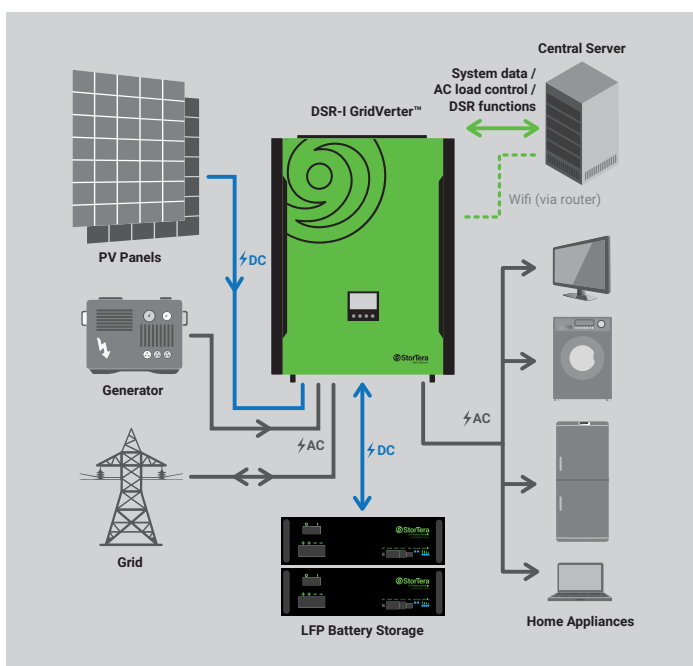
In the event of a grid failure, DSR-I GridVerter operate as a UPS/off-grid inverter with fully programmable supply priority.

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-I 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.

- Single phase (DSR-I5) or three phase (DSR-I10)
- Pure sine wave output
- Self-consumption and feed-in to the grid
- Programmable supply priority for PV, battery, generator or grid
- 2 x Advanced MPPT per unit
- 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 6 units

DSR-I GridVerter™ Multifunction DSR Energy Storage Inverters

Specifications

MODEL	DSR-I5	DSR-I10
PRODUCT CODE	DSR-I5 GV5048	DSR-I10 GV1048
RATED POWER	5000 W	10000 W
PV INPUT (DC)		
Maximum DC Power	10000 W	14850 W
Nominal DC Voltage	720 VDC	720 VDC
Maximum DC Voltage	900 VDC	900 VDC
Working DC Voltage Range	200 VDC ~ 900 VDC	300 VDC ~ 900 VDC
Start-up Voltage / Initial Feeding Voltage	250 VDC / 300 VDC	320 VDC / 350 VDC
MPP Voltage Range	250 VDC ~ 850 VDC	350 VDC ~ 850 VDC
Full Load MPP Voltage Range	500 VDC ~ 850 VDC	400 VDC ~ 800 VDC
Maximum Input Current	2*10 A	2*18.6 A
Isc PV (absolute maximum)		25 A
Max. inverter back feed current to the array		0A
GRID OUTPUT (AC)		
Nominal Output Voltage	230 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Voltage Range	184 - 265 VAC	184 - 265 VAC per phase
Output Frequency Range	47.5 ~ 51.5 Hz or 59.3~ 60.5Hz	47.5 ~ 51.5 Hz or 59.3~ 60.5Hz
Nominal Output Current	21.8 A	14.5 A per phase
Inrush Current/Duration	25 A / 20ms	17 A / 20ms
Maximum Output Fault Current/Duration	65 A / 1ms	51 A / 1ms
Maximum output Over-current Protection	65 A	51 A
Power Factor Range		0.9 lead – 0.9 lag
AC INPUT		
AC Start-up Voltage	120-140 VAC	120-140 VAC
Auto Restart Voltage	180 VAC	180 VAC per phase
Acceptable Input Voltage Range	170 - 280 VAC	170 - 280 VAC per phase
Nominal Frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
AC Input Power	5000VA / 5000W	10000VA / 10000W
Maximum AC Input Current		40 A
Inrush Input Current		40 A / 1ms
BATTERY MODE OUTPUT (AC)		
Nominal Output Voltage	230 VAC	230 VAC (P-N) / 400 VAC (P-P)
Output Frequency		50 Hz / 60 Hz (auto sensing)
Output Waveform		Pure sine wave
Output Power	5000VA/5000W	10000VA/10000W
Efficiency (DC to AC)		91%
BATTERY & CHARGER		
DC Voltage Range		40 – 60 VDC
Nominal DC Voltage		48 VDC
Maximum Battery Discharging Current	138A	275A
Maximum Charging Current	100 A	200 A
PHYSICAL		
Dimension, D X W X H (mm)	600X460X204.2	622X500X167.2
Net Weight (Kg)	29	45
OTHER		
Communication Ports		RS-232, USB, Modbus
Certification		G59/3, IEC61727:2004
Warranty		5 Year Manufacturer Warranty
ENVIRONMENTAL		
Protective Class		I
Ingress Protection Rating		IP20
Humidity		0 ~ 90% RH (Non condensing)
Operating Temperature		-10 to 55°C (Power derating above 50°C)
Altitude		Max. 2000m*

* Power de-rating 1% every 100m when altitude is over 1000m.
Product specifications are subject to change without prior notice.

