











HD WAVE SINGLE PHASE

SolarEdge's HD-Wave technology inverter, winner of the prestigious 2016 Intersolar award, breaks the mold of traditional inverters.



Bornay =

SolarEdge SE HD Wave





StorEdge SE HD Wave



SolarEdge HD Wave VE

The SolarEdge DC-AC PV inverter is specifically designed to work with the SolarEdge power optimizers. Because MPPT and voltage management are handled separately for each module by the power optimizer, the inverter is only responsible for DC to AC inversion. Consequently, it is a less complicated, more cost effective, more reliable solar inverter with a standard 12 year warranty, extendable to 20 or 25 years. The fixed string voltage ensures operation at the highest efficiency at all times independent of string length and temperature.

In addition to its functionality as a DC-optimized inverter, the single phase inverter also manages battery and system energy as part of SolarEdge's battery storage solution.

Feature Highlights:

- Solar inverters specifically designed to work with power optimizers
- . 2.2kW to 6kW inverter range
- Superior efficiency
- Standard 12-year warranty (extendable to 20 or 25 years)
- Built-in module-level monitoring receiver
- Quick and easy inverter commissioning directly from a smartphone using the SolarEdge SetApp
- Communication to internet via Ethernet, wireless (Wi-Fi or ZigBee) or cellular connection
- Supports PV and battery management as part of the StorEdge solution
- IP65 / NEMA 3R Outdoor and indoor installation

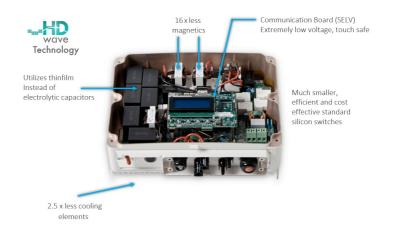
HD-Wave – A New Era for PV Inverters: ≤6kW, ≤10kg, 99% Efficiency

SolarEdge's HD-Wave technology inverter, winner of the prestigious 2016 Intersolar award, breaks the mold of traditional inverters. Using a novel power conversion technology that is based on a distributed switching and powerful DSP processing, the HD-Wave technology inverter is able to synthesize a clean sine wave that leads to a dramatic reduction in the magnetics and heavy cooling elements. This small and lightweight inverter enables simplified shipping and storing and oneperson installation. The record-breaking efficiency allows more energy production for an improved ROI.

Additional HD-Wave Feature Highlights:

- Small lightweight and easy to install at <10kg
- 99% weighted efficiency (33%-50% less losses than the market standard)
- Superb reliability due to lower heat dissipation and film capacitors instead of electrolytic capacitors
- Up to 155% oversizing allowed
- Backward compatible with existing SolarEdge systems

HD-Wave Technology Components



HD-Wave vs. Traditional Technology

HD-Wave Technology	Traditional Technology		
Distributed multi-level switching elements create a sine wave. Powerful DSP processor synthesizes a clean sine wave.	1) Today, inverter switching elements create a crude sine wave		
2) Less magnetics are required for filtering	2) Magnetics filder a sine wave		
3) Highly efficient design with minimal heat loss reduces	Metallic enclosures, cooling systems and fans dissipate heat		

SPECIFICATIONS

		SE2200H	SE3000H	SE3500H	SE4000H	SE5000H	SE6000H		
OUTPUT									
Rated AC Power Output	VA	2200	3000	3500	4000	5000 (1)	6000		
Máximum AC Power Output	VA	2200	3000	3500	4000	5000 (1)	6000		
AC Output Voltage (Nominal)	Vac			220	/ 230				
AC Ouput Voltage Range	Vac 184 - 264,5								
AC Frequency (Nominal)	Hz	50 / 60 ± 5							
Max. Continuous Output Current	А	10	14	16	18,5	23	27,5		
Fotal Harmonic Distortion (THD)				<	3				
Power Factor	1, adjustable between -0,9 to 0,9								
Protections,			Utility monitorin	ng, Islanding Protect	ion, Country configu	rable Thresholds			
NPUT									
Maximum DC Power (Module STC)	W	3400	4650	5425	6200	7750	9300		
Fransformer-less, Ungrounded		Yes							
Maximum input voltage	Vdc	Vdc 480							
Nominal DC input voltage	Vdc		380						
Maximum Input Current	Adc	6,5	9	10	11,5	13,5	16,5		
Reverse-polarity protection				Y	es				
Ground-Fault isolation detection	600kΩ Sensitivity								
Maximum inverter efficiency	%								
European Weighted efficiency	%	98,3		98,8		g	19		
Nightime Power Consumption	W			<	2,5				
ADDITIONAL FEATURES									
Supported Communication Interfaces ⁽³⁾			RS485, Ethernet,	ZigBee (optional), V	Vi-Fi (optional), Built	-in GSM (optional)			
Smart Energy Management	Export Limitation, StorEdge applications								
nverter commissioning		,	With the SetApp mo	bile application usin	g built in Wi-Fi statio	on for local connection	n		
Arc Fault protection			Integro	ated, User Configura	ble (According to UL	1699B)			
STANDARD COMPLIANCE									
Safety				IEC-62	109-1/2				
Grid Connection Standards	IEC61727, IEC62116, EN 50438, VDE-AR-N-4105, VDE 0126-1-1, UTE_C_15-712, G98, G99, CEI-021, ÖNORM, TF3.2.1, C10-11, NRS 097-2-1								
			FCC1000 C 2 IFCC1	000 6 3 15061000	2 11 15661000 2 1	2 FCC Dark 15 Class	- D		
Emissions RoHS	IEC61000-6-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, FCC Part 15 Class B Yes								
				Y					
NSTALLATION SPECIFICATIONS AC Output	mm			Cable Clar-	diameter 0, 16				
AC Output AC - Supported Wire Cross Section	mm ²	Cable Gland - diameter 9-16							
AC - Supported Wire Cross Section OC Input	mm2	1 - 16							
<u>'</u>	mm	1 MC4 pair 2 MC4 pairs mm 280 × 370 × 142							
Dimensions Voight	Mm	7.0	7.0			0	10.6		
Weight	Kgr	7,8	7,8	7,8	7,8	9	10,6		
Noise		< 25							
Cooling					convection				
Operating temperature range	°C				-40 optional)				
Protection Rating	IP65 - Outdoor and Indoor								

 $^{^{(1)}}$ Limited to 4600VA when inverter is to Germany $^{(2)}$ De-rating from 50 $^{\circ}\mathrm{C}$

SolarEdge HD Wave inverters are availables in a Storage (including SESTI inside the same box) and in a EV vechicle for electrical vehicle recharge and energy management.

DOWNLOADS

CATÁLOGO GENERAL 2020

PDF Catalogo-Bornay-0520.pdf

Size: 21.51 MiB