



One of the most important criteria when purchasing an inverter is its efficiency. SMA has set a new record for transformer-based devices at 95.6%.

The higher the efficiency, the lower the losses that are incurred when converting direct current produced by the solar modules into alternating current. As well as ensuring the effectiveness of the OptiCool active cooling system, an all new, extra robust aluminium die-cast enclosure with a dual-chamber design also safely protects the electronic components from wind and weather.

Features

- | Best efficiency of inverters with transformers in power class up to 4 kW
- | OptiCool: maximum output in ambient temperatures of up to 45 °C due to dual-chamber cooling system
- | Indoor & outdoor installation
- | Extended temperature range -25 °C to +60 °C
- | SMA grid guard: Automatic disconnection unit
- | Diagnostics & communication via network, radio & cable (RS232 or RS485)
- | Automatic 50 Hz / 60 Hz grid frequency detection
- | Integrated 2-line display
- | 5-year SMA warranty (10 years optional)



	SB3300	SB3800		SB3300	SB3800
Input			Short circuit proof	Yes, current regulation	
Max DC power ($P_{DC, max}$)	3,820 W	4,040 W	Connection to utility	AC plug connector	
Max DC voltage ($U_{DC, max}$)	500 V		Efficiency		
PV voltage range, MPPT ($U_{PV, max}$)	200-500 V		Max efficiency	95.2%	95.6%
Max input current ($I_{PV, max}$)	20 A		Euro-efficiency	94.4%	94.7
DC voltage ripple (U_{pp})	< 10%		Enclosure		
Max number of strings (parallel)	3		accord. to DIN EN 60529	IP65	
DC connections	MC III		Mechanical data		
Thermally monitored varistors	Yes		Dimensions (w x h x d)	450 x 352 x 236 mm	
Ground fault monitoring	Yes		Weight	41 kg	
Reverse polarity	Short circuit diode				
Output					
Max AC power ($P_{AC, max}$)	3,600 W	3,800 W			
Nominal AC power ($P_{AC, nom}$)	3,300 W	3,800 W			
THD of grid current	< 4%				
Default AC voltage ($U_{AC, nom}$)	220 - 240 V				
AC frequency (F_{AC})	50 / 60 Hz				
Power factor (cos phi)	1				

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