

11 Technical data

11.1 LSPV inverter 500K / 630K

Type	LSPV inverter 500K	LSPV inverter 630K
DC data		
Max. PV-Power	575 kW	725 kW
MPPT-Range	460...850 V	460...850 V
Max. DC voltage	950 V	950 V
Max. DC current	1000 A	1300 A
MPP- tracking	Fast, precise MPP-tracking	
Internal overvoltage protection	IEC 61643-21 / EN 61643-22 - Typ 2 D/ Type 2D	
AC data		
Nom. AC-Power	500 kW	630 kW
Max. AC-Power	500 kW	630 kW
AC grid connection	3AC315 V, 50-60 Hz, use external transformer	
Cosφ	1	1 (on demand: ± 0,9)
Max. AC current	920 A	1220 A
Distortion factor THD	≤3% (before transformer)	
Max. efficiency	98% without transformer	
Efficiency	97% without transformer	
Infeed as from	5000W	
Internal consumption in night operation	500 – 990 W	50 – 600 W
Internal overvoltage protection	IEC 61643-21 / EN 61643-22 - Typ 2 D/ Type 2D	
Cooling, ambient conditions, EMC		
Cooling	Liquid cooled with external water /air heat exchanger	Hermetic closed with liquid cooling
Ambient temperature	-10...+50° C	-10...+45° C
Site altitude	Up to 1000m above sea level, with power-derating up to 2000m	
Noise	t. b. d.	
Emitted interference	EN61000–6–4: 2007	
Certificate	CE (UL and CSA in preparation)	
Interference immunity	EN 61000-4-2: 2005	
Environmental classif.	3K3 acc. To DIN IEC 721 –3-3	
Anti-islanding protection	Prevents back-feeding inverter-generated power to the grid in the event of breakdown	
Voltage monitoring	VDEW requirement in accordance with directive	
Technical Data		
Type of protection	IP43 or IP54 (option) as per EN 60529	IP54 as per EN 60529

Type	LSPV inverter 500K	LSPV inverter 630K
Dimensions Length / Width / Height	2800 mm / 2000 mm / 600 mm Additional cooling unit 600 mm / 2000 mm (+200 mm) / 960mm	2800 mm / 2000 mm / 600 mm Additional cooling unit 600 mm / 2000 mm (+200 mm) / 960mm
Weight	1 800 kg additional cooling unit ca. 400 kg	
Disconnection DC	DC- contactor	
Disconnection AC	Main switch and main contactor	