

	DLS 250AC EVO	DLS 450AC EVO
AC inverter System with HV battery storage		
AC output		
Grid connection	1P+N+PE	
Sn nominal power	2.5kVA	4.5kVA
P maximum active power	2.5kW	4.5kW
AC voltage range	230Vac ± 15% (*)	
Output nominal current	10.9A	19.6A
Grid nominal frequency	50Hz	
Frequency range	47Hz - 53Hz (*)	
Cos φ	1 (adj ± 0.80)	
THD	< 3%	
Battery charger		
Battery type	Litio	
Battery voltage range	40V - 65V	
Max battery current	50A	100A
Nominal battery voltage	50V	50V
Max charging power	2.5kW	4.5kW
Max discharging power	2.5kW	4.5kW
Communication interfaces	CAN/RS485	
EPS output		
Maximum Smax power	2.5kVA	4.5kVA
AC voltage range	230Vac ± 15% (*)	
Output nominal current	10.9A	19.6A
Grid nominal frequency	50Hz	
Intervention time	< 5 sec (*)	
THD	< 3%	
Operating Performance		
Maximum Efficiency	94%	
Weighted efficiency (Euro)	92%	
Protective Devices		
BATTERY polarity reversal	As standard	
BATTERY overload protection	As standard	
AC short-circuit protection	As standard	
Isolation monitoring unit	As standard	
Interface protection and anti-islanding	In compliance with local legislation	
RCMU (Residual Current Monitoring Unit)	As standard	
AC Overvoltage protective device	As standard	
BATTERY Overvoltage protection	As standard	
Accessories Supplied		
AC connectors	Screw contacts terminal strip, M25 cable gland	
BATTERY connection	Screw contacts terminal strip, PG9 cable gland	Screw contacts terminal strip, M25 cable gland
BATTERY automatic switch	Built-in	
User Interface	Graphic Touch Screen 4.3" colour LCD	
Communication interfaces	USB/CAN Bus/RS485/Ethernet/WiFi	
External alarm signal	As standard	
Datalogger	Built-in	
Warranties	5 years (as standard)/10 year (optional)	
Environmental Conditions		
Ambient temperature	-20°C...+60°C	
Power derating temperature range	40°C...+60°C	
Storage temperature	-30°C...+70°C	
Relative humidity	5%...95% without condensation	
Noise levels	< 50 dB(A) @ 1m	
Maximum operating altitude without derating	2000m	
Pollution degree classification	PD 3	
Installation environmental category	Indoor, unconditioned	
Physical		
Protection rating	IP 21	
Overvoltage category (IEC 62109-1)	II (BATTERY input) III (AC input & output)	
Cooling concept	I-cool, forced cooling	
Dimensions (W x H x D) mm	480 x 730 x 150	710 x 650 x 150
Weight	20kg	30kg
Fitting system	Wall bracket	
Safety		
Protection class	I	
BATTERY to AC isolation	HF Transformer	
Certifications	CE	
EMC and Safety standards	EN61000-6-2 (EMC); EN61000-6-3 (EMC); EN 62109-1 (Safety); EN 62109-2 (Safety)	
Grid codes	CEI 0-21 (IT); VDE 0126-1-1 (DE); VDE AR-N 4105 (DE); G98/G99 (UK); C10-11 (BE)	
Other Features		
BACKUP/OFF-GRID mode operation	Yes, with internal interlock (*)	
ON-GRID/BACKUP/OFF-GRID selection mode	Yes, automatic	
Grid support (grid services)	Yes, if required by the applied grid code	
Residential loads management (OPTIONAL)	Yes, 1 dry contact 4A 250Vac	

(*) The specified range or functionality may vary according to the mains connection standard enforced in the country of installation