DELIOS

PV inverter System with HV battery storage	DLS 450 EVO	DLS 600 EV0	
DC Inputs Maximum input power	6kW	8kW	
Maximum input voltage	600\		
Minimum input voltage		115V	
Nominal input voltage FV MPPT voltage range		400V 100V - 550V	
Maximum power x MPPT	3kW	4kW	
DC voltage range - MPPT @ Pdc max Maximum input current x MPPT	230V - 550V @ 3kW 20A	310V - 550V @ 4kW 20A	
Short-circuit current x MPPT	25A	25A	
Number of MPPTs Maximum number of strings x MPPT	2+2	2+2	
Battery charger			
Battery type Battery voltage range		Litio 40V - 65V	
Max battery current	1004		
Nominal battery voltage	50V		
Max charging power Max discharging power	5kW 5kW		
Communication interfaces		CAN	
AC output Grid connection	1P+N+	DE	
Sn nominal power	4.5kVA	6kVA	
P maximum active power	4.5kW	6kW	
AC voltage range Output nominal current	230Vac ± 1 19.6A	<u>5% (^)</u> 26.1A	
Grid nominal frequency	50Hz	2	
Frequency range Cos φ		47Hz - 53Hz (*) 1 (adj ± 0.80)	
THD		< 3%	
EPS output Maximum Smax power (P)(+ BATT)	4.51/14	61/1/1	
Maximum Smax power (PV + BATT) Maximum Smax power (BATT)	4.5kVA 4.5kVA	6kVA 5kVA	
AC voltage range	230Vac ± 1		
Output nominal current Grid nominal frequency	19.6A 50Hz	26.1A	
Intervention time	< 5 sec		
THD	< 3%	< 3%	
Operating Performance Maximum Effciency	97%		
Weighted effciency (Euro)	96%		
Battery typical effciency Protective Devices	94%		
DC polarity reversal		As standard	
BATTERY polarity reversal BATTERY overload protection	As standard As standard		
AC short-circuit protection		As standard	
Isolation monitoring unit		As standard In compliance with local legislation	
Interface protection and anti-islanding RCMU (Residual Current Monitoring Unit)	As stand		
DC Overvoltage protective device	As stand	As standard	
AC Overvoltage protective device		As standard As standard	
BATTERY Overvoltage protection Accessories Supplied	AS STAN	Jaro	
DC connectors		Quick connectors Screw contacts terminal strip, M25 cable gland	
AC connectors BATTERY connection	Screw contacts terminal s Screw contacts terminal s		
DC switch	As stand	dard	
BATTERY automatic switch User Interface		Built-in Graphic Touch Screen 4.3" colour LCD	
Communication interfaces	USB/CAN Bus/RS48		
External alarm signal Datalogger		As standard Built-in	
Warranties		5 years (as standard)/10 year (optional)	
Environmental Conditions Ambient temperature	000	-20°C+60°C	
Power derating temperature range		40°C+60°C	
Storage temperature	-30°C…+	-30°C+70°C	
Relative humidity Noise levels		5%95% without condensation < 50 dB(A) @ 1m	
Maximum operating altitude without derating	2000	2000m	
Pollution degree classification Installation environmental category		PD 3 Indoor, unconditioned	
Physical			
Protection rating		IP 21 II (DC, BATTERY inputs)	
Overvoltage category (IEC 62109-1)		III (AC output)	
Cooling concept	I-cool, forced		
Dimensions (W x H x D) mm Weight		710 x 650 x 150 30Kg	
Fitting system		Wall bracket	
Safety Protection class			
DC to AC isolation	Transform	Transformerless	
BATTERY to AC and DC isolation	HF Transf	HF Transformer	
Certifications EMC and Safety standards		CE 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	Vac. with internal	Vec with internal interlack (*)	
ON-GRID/BACKUP/OFF-GRID selection mode	Yes, auto	Yes, with internal interlock (*) 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 specifed range or functionality may vary according to the mains connection standard enforced in the country of installation