DELIOS

PV inverter System with HV battery storage	DLX-500HV	DLX-600HV	DLX-800HV	DLX-1000HV
DC Inputs				
Maximum input power	7.5kW	9kW	12kW	15kW
Maximum input voltage	1000V			
Minimum input voltage	200V			
Nominal input voltage	720V			
FV MPPT voltage range	150V - 950V			
DC voltage range - independent MPPTs @ Pdc max	385V - 850V @ 5kW	500V - 850V @ 6.5kW	655V - 850V @ 8.5kW	770V - 850V @ 10kW
DC voltage range - MPPT connected in parallel @ Pdc max	290V - 850V	350V - 850V	425V - 850V	460V - 850V
Maximum power x MPPT	5kW	6.5kW	8.5kW	10kW
Maximum MPPT power - Maximum imbalance	5kW @ MPPT1 + 2.5kW @ MPPT2	6.5kW @ MPPT1 + 2.5kW @ MPPT2	8.5kW @ MPPT1 + 3.5kW @ MPPT2	10kW @ MPPT1 + 5kW @ MPPT2
Maximum input current x MPPT	13A			
Short-circuit current x MPPT	15A			
Number of MPPTs	2			
Maximum number of strings x MPPT	1+1			
Battery charger				
Battery type	Lithium			
Battery voltage range	170V - 500V			
Max charging/discharging current	25A			
Nominal battery voltage	200V	240V	320V	400V
Max charging/discharging power	5kW	6kW	8kW	10kW
Communication interfaces	CAN/RS485			
AC output				
Grid connection	3W+N+PE			
Sn nominal power	5kVA	6kVA	8kVA	10kVA
P maximum active power	5kW	6kW	8kW	10kW
AC voltage range	400Vac ± 15% (*)			
Output nominal current	7.2A	8.7A	11.5A	14.5A
Grid nominal frequency	50Hz			
Frequency range	47Hz - 53Hz (*)			
Cos ϕ	1 (adj ± 0.80)			
THD	< 3%			
EPS output				
Maximum Smax power	5kVA	6kVA	8kVA	10kVA
AC voltage range	400Vac ± 15% (*)			
Output nominal current	7.2A	8.7A	11.5A	14.5A
Grid nominal frequency	50Hz			
Intervention time	< 5 sec (*)			
THD	< 3%			
Operating Performance				
Maximum Effciency	97.6%			
Weighted effciency (Euro)	97%			
Battery typical effciency	96%			
Protective Devices				
DC polarity reversal	As standard			
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			
DC Overvoltage protective device	As standard			
AC Overvoltage protective device	As standard			
BATTERY Overvoltage protection	As standard			
Accessories Supplied				
DC connectors	Quick connectors			
AC connectors	Spring contacts terminal strip, M25 cable gland			
BATTERY connection	Quick connectors			
DC switch	As standard			
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 classifcation	PD 3			
Installation environmental category	Indoor, unconditioned			
Physical				
Protection rating	IP 21			
Overvoltage category (IEC 62109-1)	II (DC, BATTERY inputs) III (AC output)			
Cooling concept	I-cool, forced cooling			
Dimensions (W x H x D) mm	476 x 735 x 170			
Weight	25Kg			
Fitting system	Wall bracket			
Safety				
Protection class	I			
DC to AC isolation	Trasformerless			
BATTERY to AC and DC isolation	Trasformerless			
Certifcations	CE			
EMC and Safety standards	EN61000-6-2 (EMC); EN61000-6-3 (EMC); EN62109-1 (Safety); EN62109-2 (Safety)			
Grid codes	CEI 0-21 (IT); VDE AR-N 4105 (DE); G98-G99 (UK); C10-11 (BE)			
Other Features				
BACKUP/OFF-GRID mode operation	Yes, with external 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	Yes, 1 dry contact 4A 250Vac			

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