

		DLS 300HV	DLS 450HV	DLS 600HV
DC Inputs	Maximum input power	4.5kW	6kW	8kW
	Maximum input voltage		600V	
	Minimum input voltage		150V	
	Nominal input voltage		400V	
	FV MPPT voltage range		120V - 550V	
	Maximum power per MPPT	2.25kW	3kW	4kW
	Maximum input current per MPPT		13A	
	Short -circuit current per MPPT		15A	
	Fault Current to the Strings		0A	
	Number of MPPTs		2	
Maximum number of strings per MPPT		1+1		
Battery Charger	Battery type		Lithium	
	Battery voltage range		135-360	
	Max battery current		20A	
	Nominal battery voltage	150V	225V	300V
	Max charging/discharging power	3kW	4.5kW	6kW
Communication interfaces		CAN/RS485		
AC Output	Grid connection		1P+N+PE	
	Sn nominal power	3kVA	4.5kVA	6kVA
	P maximum active power	3kW	4.5kW	6kW
	AC voltage range		230Vac ± 15% (*)	
	Output nominal current	13A	19.6A	26.1A
	Maximum current protection		30A	
	Maximum short-circuit current		30A	
	Grid nominal frequency		50Hz	
	Frequency range		47Hz - 53Hz (*)	
	Cos φ		1 (adj ± 0.80)	
THD		< 3%		
EPS Output	Maximum Smax power	3kVA	4.5kVA	6kVA
	AC voltage range		230Vac ± 15% (*)	
	Output nominal current	13A	19.6A	26.1A
	Maximum current protection		30A	
	Maximum short-circuit current		30A	
	Grid nominal frequency		50Hz	
	Intervention time		< 1 sec (*)	
THD		< 3%		
Performance	Maximum efficiency		97,4%	
	Weighted efficiency (Euro)		97%	
	Battery typical efficiency		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	
Features	DC connectors		Quick connectors	
	AC connectors		Spring terminal block, 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 years (opzional)	
Environmental Conditions	Ambient temperature		-20°C...+60°C	
	Power derating temperature range		40°C...+60°C	
	Storage temperature		-30°C...+70°C	
	Relative humidity		4%...100% with condensation	
	Noise levels		< 50 dB(A) @ 1m	
	Maximum operating altitude without derating		2000m	
	Pollution degree classification		PD 3	
Installation environmental category		External		
Physical	Protection rating - Inverter		IP 65	
	Protection rating - Ventilation		IP 54	
	Overvoltage category (IEC 62109-1)		II (DC, BATTERY input); III (AC output)	
	Cooling concept	Natural convection	Smart-Air Cooling	
	Dimensions (W x H x D) mm		460 x 525 x 170	
Safety	Weight		22Kg	
	Fitting system		Wall bracker	
	Protection class		I	
	DC to AC isolation		Transformerless	
	BATTERY to AC and DC isolation		Transformerless	
	Certifications		CE	
	EMC and Safety standards		EN61000-6-2 (EMC); EN61000-6-3 (EMC); EN 62109-1 (Sicurezza); EN 62109-2 (Sicurezza)	
Other	Grid codes		CEI 0-21 (IT); VDE 0126-1-1 (DE); VDE AR-N 4105 (DE); G98/G99 (UK); C10-11 (BE)	
	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 specified range of functionality may vary according to the mains connection standard enforced in the country of installation