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THE POWER OF SUN EVEN WHEN IT'S NOT HERE



#### **DELIOS: ITALIAN QUALITY**

**DELIOS** is a dynamic young company born from Italian ingenuity.

All the products in the **DELIOS** range are developed and produced in Italy, in Cittadella (Padua) Headquarters. Nearer and nearer to a future where energy self-sufficiency is no more a dream but a solid reality.

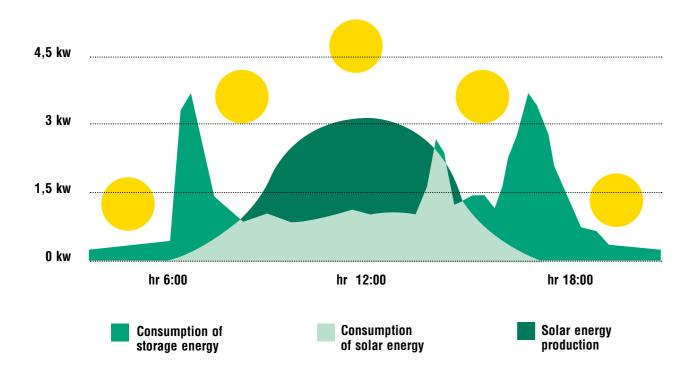
Innovation and continuous improvement drive **DELIOS** activity and make quality the cornerstone of the company. Every process and product undergo continuous quality tests.

From the company site www.delios-srl.it it is possible to download the FACTORY INSPECTION certification that ensure the use of Made in Europe components only.

**DELIOS** vision is a world where clean energy from renewable sources will always be available where and when necessary.

#### **DELIOS SYSTEM: THE HYBRID INVERTER**

**DELIOS** systems are able to remarkably increase the self-consumption of solar energy produced from the photovoltaic plant. **DELIOS** hybrid inverter allows you to store in the battery-storage systems the extra free clean power produced by the sun, making it available for later use.



#### WHY STORAGE?



NO WORRIES ABOUT RI-SING ENERGY PRICES **DELIOS** hybrid inverter helps you cut your energy costs in a considerable way, both for your home and for your business. 02

MAXIMUM INDEPENDENCE Gain independence from the grid with **DELIOS** and have plenty of energy for your home even when the power grid fails.

03

THE ENERGY REVOLUTION STARTS NOW

Take part in the energy revolution. Choose renewable energy and enter the community that drives the change.

#### WHY DELIOS: TECHNOLOGY AND ADVANTAGES





#### TOTAL PROTECTION

**DELIOS** system fits perfectly to your needs ensuring your home and your business have the power they need:

• EPS SYSTEM (EMERGENCY POWER SUPPLY)

**DELIOS** protects your home from power-cuts ensuring the power supply that you need. EPS System enables the inverter to work completely off-grid.

· BACK-UP RESERVE FUNCTION

With **DELIOS** you never run out of power, even during a power-cut. The inverter software is tailored to customer needs with a back-up power reserve in the storage system, so that the EPS system can always be activated.



#### TOTAL EFFICENCY

**DELIOS** system automatically manages the electricity consumption from the grid and the pv-storage system without any interruption.

#### DC POWER OVERSIZING

**DELIOS** Inverters allow you to oversize the PV field having more DC power available. This configuration enables to always have power to charge the storage system even when the AC consumption is maximum.



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**DELIOS** systems allow great flexibility, offering a wide range of configurations (schemes at the end of this catalogue), among which:

#### · "SMART ISLAND" FUNCTION

Island mode function allows you total independence from public electrical grid combining different energy sources (generator set, power units...)

#### · "HYBRID-AC" FUNCTION

**DELIOS** Inverters can be installed to an existing PV-plant in order to add a storage system and eventually to increase the photovoltaic field.

#### · "BATTERY READY" MODE

You decide whether to connect up the battery at the time of installation or add it later on.

#### SMART TECNOLOGY

**DELIOS** systems are designed to provide the best performance of the photovoltaic plant optimising energy self-consumption:

#### · GRID FEED-IN MANAGEMENT

**DELIOS** system optimises the feed into the grid through a smart output power management. The feed-in limit can be set by the client considering their needs.

#### · BATTERY MANAGER AND MANTEINANCE

Self-regulating battery maintenance in case of low level of charge or days of inactivity. Ability to set specific time slots for battery use.

#### · HIGH PERFORMANCE MPPT-I TRACKER

Optimised management of two independent and separate PV strings that ensure the best PV-panel performance in all conditions.

## DLS SINGLE PHASE

The **DLS** single-phase range is the perfect solution for domestic plants. It enables an increase in self-consumption within your home and gain independence from rising energy prices.





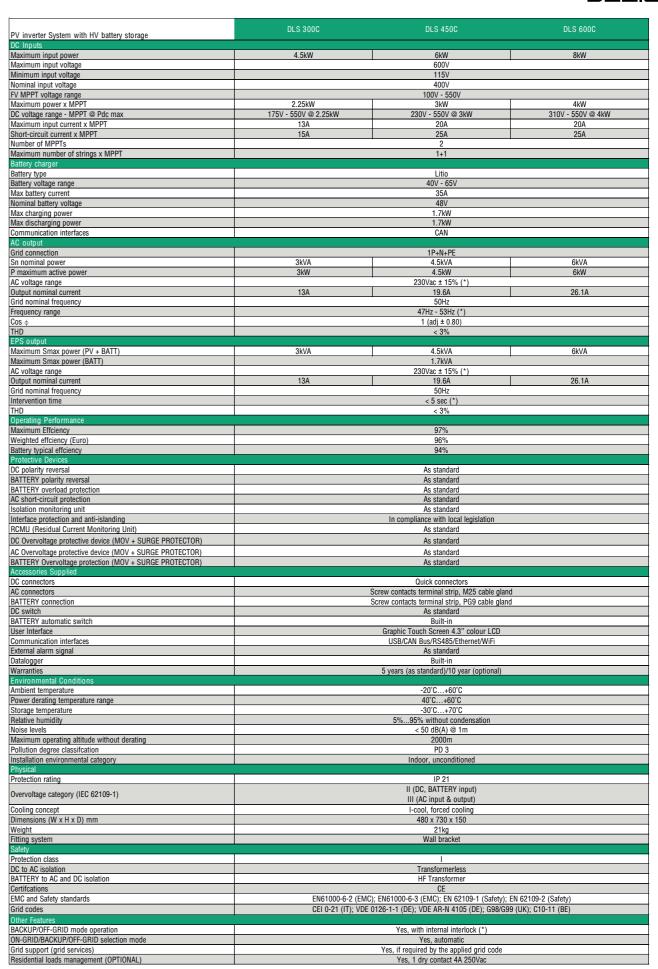
Easy and quick installation, thanks to the clever design of every component:

- Wide voltage range for MPPT inputs to allow a quick and flexible PV arrays configuration;
- · No external switchboards required;
- · Different battery brands and types paired with the system.



DELIOS

#### 



 $<sup>(^{\</sup>star})$  The specified range or functionality may vary according to the mains connection standard enforced in the country of installation





The compact **DELIOS** inverter.

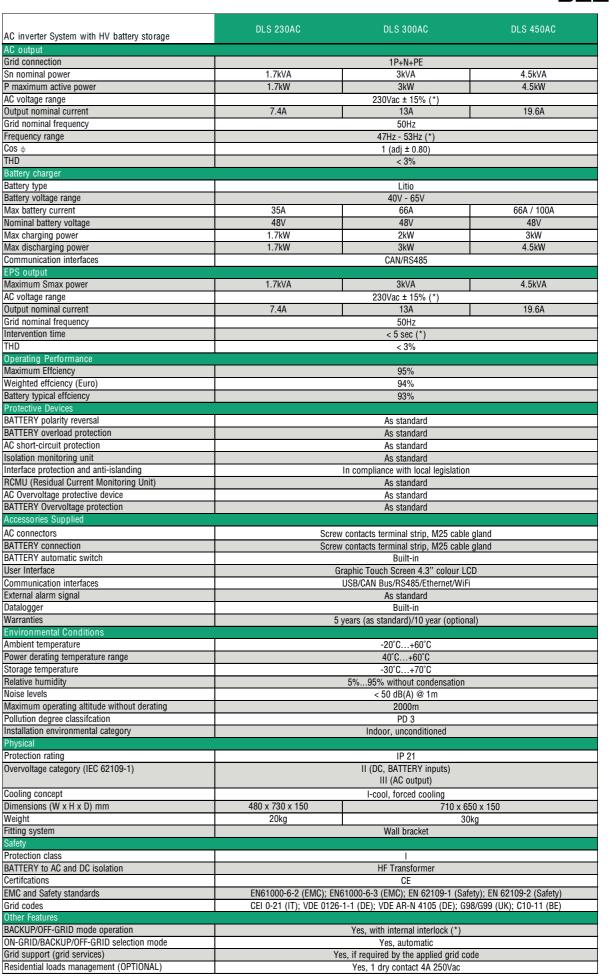
This compact version is the perfect solution for the average home needs, with no high energy consumption and / or high-power needs. All the advantages of the **DELIOS** system in a compact and cost-effective product. Perfect for small homes.



PV inverter System with HV battery storage	DLS 300	DLS 450 / DLS 450H	DLS 600L / DLS 600
DC Inputs	4 51211	CLAM	OLAM
Maximum input power Maximum input voltage	4.5kW	6kW 600V	8kW
Minimum input voltage		115V	
Iominal input voltage		400V	
V MPPT voltage range Maximum power x MPPT	2.25kW	100V - 550V 3kW	4kW
DC voltage range - MPPT @ Pdc max	175V - 550V @ 2.25kW	230V - 550V @ 3kW	310V - 550V @ 4kW
Maximum input current x MPPT	13A	20A	20A
Short-circuit current x MPPT Jumber of MPPTs	15A	25A 2	25A
Maximum number of strings x MPPT	1+1	2+2	2+2
Battery charger			
Battery type		Lithium 40V - 65V	
Battery voltage range Max battery current	66A	66A / 100A	66A / 100A
Nominal battery voltage	48V	48V	48V
Max charging power	2kW	2kW / 3kW 3kW / 4.5kW	2kW / 3kW 3kW / 4.5kW
Max discharging power Communication interfaces	3kW	CAN	3KW / 4.3KW
AC output		S. III	
Grid connection		1P+N+PE	
Sn nominal power P maximum active power	3kVA 3kW	4.5kVA 4.5kW	6kVA 6kW
AC voltage range	JAVV	230Vac ± 15% (*)	OVAA
Output nominal current	13A	19.6A	26.1A
Grid nominal frequency		50Hz	
Frequency range Cos φ		47Hz - 53Hz (*) 1 (adj ± 0.80)	
THD		< 3%	
EPS output			
Maximum Smax power (PV + BATT) Maximum Smax power (BATT)	3kVA 3kVA	4.5kVA 3kVA / 4.5kVA	6kVA 3kVA / 4.5kVA
Maximum Smax power (BATT) AC voltage range	SKVA	230Vac ± 15% (*)	JRVA / 4.JRVA
Output nominal current	13A	19.6A	26.1A
Grid nominal frequency		50Hz	
ntervention time		< 5 sec (*) < 3%	
Operating Performance		2070	
Maximum Effciency		97%	
Weighted efficiency (Euro)		96%	
Battery typical effciency Protective Devices		94%	
DC polarity reversal		As standard	
BATTERY polarity reversal		As standard	
BATTERY overload protection AC short-circuit protection		As standard 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 (MOV + SURGE PROTECTOR)		As standard	
AC Overvoltage protective device (MOV + SURGE PROTECTOR)  BATTERY Overvoltage protection (MOV + SURGE PROTECTOR)		As standard As standard	
Accessories Supplied		no otandara	
DC connectors		Quick connectors	
AC connectors BATTERY connection		Screw contacts terminal strip, M25 cable gland Screw contacts terminal strip, M25 cable gland	
DC switch		As standard	,
BATTERY automatic switch		Built-in	
User Interface		Graphic Touch Screen 4.3" colour LCD	
Communication interfaces External alarm signal		USB/CAN Bus/RS485/Ethernet/WiFi 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  Maximum operating altitude without derating		< 50 dB(A) @ 1m 2000m	
Pollution degree classification		PD 3	
nstallation environmental category		Indoor, unconditioned	
Physical Protection rating		IP 21	
•		II (DC, BATTERY inputs)	
Overvoltage category (IEC 62109-1)		III (AC output)	
Cooling concept		I-cool, forced cooling	
		710 x 650 x 150 30Kg	
		Wall bracket	
Weight			
Weight Fitting system Safety			
Weight Fitting system Safety Protection class		 	
Weight Fitting system Safety Protection class DC to AC isolation		Transformerless	
Weight Fitting system Safety  Protection class DC to AC isolation BATTERY to AC and DC isolation		•	
Weight ititing system Safety Protection class DC to AC isolation BATTERY to AC and DC isolation Certifications EMC and Safety standards		Transformerless HF Transformer CE C); EN61000-6-3 (EMC); EN 62109-1 (Safety);	
Weight Fitting system Safety Protection class DC to AC isolation BATTERY to AC and DC isolation Certifications EMC and Safety standards Grid codes		Transformerless HF Transformer CE	
Weight Fitting system Safety Protection class DC to AC isolation BATTERY to AC and DC isolation Certifications EMC and Safety standards Grid codes Other Features		Transformerless HF Transformer CE C); EN61000-6-3 (EMC); EN 62109-1 (Safety); 0126-1-1 (DE); VDE AR-N 4105 (DE); G98/G9	
Dimensions (W x H x D) mm  Weight  Fitting system  Safety  Protection class  DC to AC isolation  BATTERY to AC and DC isolation  Certifications  EMC and Safety standards  Grid codes  Other Features  BACKUP/OFF-GRID mode operation  ON-GRID/BACKUP/OFF-GRID selection mode  Grid support (grid services)		Transformerless HF Transformer CE C); EN61000-6-3 (EMC); EN 62109-1 (Safety);	

<sup>\*)</sup> The specifed range or functionality may vary according to the mains connection standard enforced in the country of installation

#### DELIOS



<sup>(\*)</sup> The specifed range or functionality may vary according to the mains connection standard enforced in the country of installation





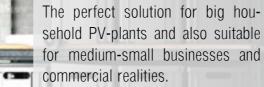
# DELIOS HOME AUTOMATION DLS

**DELIOS** system is designed to integrate home automation functionalities that allow the management of the power surplus once the storage system is full. With Home Automation **DLS** board you can reduce even more fossil fuels consumption, getting the most out of clean sun power:

-SMART LOAD function allows you to schedule electrical appliances to start when more energy is available;

-You can control heat pumps or tanks for domestic hot water, saving on the natural gas bill.

### DLX THREE PHASE



Governments and corporations are introducing reduced CO2 emissions policies to combat the effects of climate change and customers are more and more aware about companies' carbon footprint.

Moreover, operational expenses are negatively impacted by rising electricity costs. For these reasons, many companies are considering installing storage solar systems.





#### **VERSATILITY AND POWER**

- HIGH VOLTAGE BATTERIES: for the best performance and maximum efficiency.
- PARALLEL OPERATION UP TO 10 INVERTERS: to provide all the power that a company could need.
- EMBEDDED LOAD MANAGER: to maximise self-consumption in a smart way.





The **DELIOS PV** string inverter is perfect to manage big plants, where the storage system is sized only to a part of the whole plant power production.

PV inverter	DLX-500	DLX-600	DLX-800	DLX-1000	
OC Inputs					
aximum input power	7.5kW	9kW	12kW	15kW	
aximum input voltage		100			
linimum input voltage		200 720			
ominal input voltage V MPPT voltage range		150V -			
v MPPT voltage range IC voltage range - independent MPPTs @ Pdc max	385V - 850V @ 5kW	500V - 850V @ 6.5kW	655V - 850V @ 8.5kW	770V - 850V @ 10kW	
OC voltage range - independent MPPTs @ Pdc max OC 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		6.5kW @ MPPT1 + 2.5kW @ MPPT2			
Maximum input current x MPPT	SKW @ MFF11 + 2.5KW @ MFF12	0.5kW @ MFF11 + 2.5kW @ MFF12		I TOKW @ MFFTT + SKW @ MFF	
hort-circuit current x MPPT					
lumber of MPPTs	15A 2				
Maximum number of strings x MPPT		1+			
C output		17			
arid connection		3W+N	, DE		
nn nominal power	5kVA	6kVA	8kVA	10kVA	
P maximum active power	5kW	6kW	8kW	10kW	
C voltage range	JAVV	400Vac ±		TORVV	
o vollage range lutput nominal current	7.2A	8.7A	11.5A	14.5A	
rid nominal frequency	1.2A	50		14.JA	
requency range		47Hz - 5			
requency range Cos o		1 (adj ±			
ins φ HD		(au) = < 3			
PV-EPS output		< 3	70		
Maximum Smax power	5kVA	6kVA	8kVA	10kVA	
NC voltage range	JAVA	400Vac ±		TOKVA	
Output nominal current	7.2A	8.7A	11.5A	14.5A	
Grid nominal frequency	1.24	0.7A 50l		14.JA	
ntervention time		< 5 se			
THD		< 3 < 3			
Operating Performance		< 3	/6		
Maximum Effciency		97.0	10/.		
Veighted effciency (Euro)		97			
Protective Devices		91	/6		
OC polarity reversal		As sta	ndard		
C short-circuit protection		As sta			
solation monitoring unit		As sta			
nterface protection and anti-islanding		In compliance with			
RCMU (Residual Current Monitoring Unit)		As sta			
OC Overvoltage protective device		As sta			
AC Overvoltage protective device		As sta			
Accessories Supplied		710 010	idaid		
DC connectors		Quick cor	nectors		
AC connectors		Spring contacts terminal			
OC switch		As sta			
Jser Interface		Graphic Touch Scre			
Communication interfaces		USB/CAN Bus/RS4			
external alarm signal		As sta			
Datalogger		Buil			
Varranties		5 years (as standard	/Tu year (optional)		
invironmental Conditions		0000	· co°C		
Ambient temperature		-20°C			
Power derating temperature range Storage temperature		40°C -30°C			
Relative humidity		-30 G 5%95% witho			
loise levels		5%95% WITHO			
loise levels  Maximum operating altitude without derating		< 50 dB(/			
naximum operating attitude without derating Pollution degree classifcation					
ollution degree classification nstallation environmental category					
nstallation environmental category Physical		Indoor, unc	Jiiuiudieu		
		IP:	1		
Protection rating Overvoltage category (IEC 62109-1)					
ivervoitage category (IEO 02109-1)	II (DC, BATTERY inputs) III (AC output)				
		-			
Cooling concept	I-cool, forced cooling				
limensions (W x H x D) mm		476 x 73			
/eight		221			
itting system		Wall b	аскет		
afety					
rotection class					
C to AC isolation		Trasforr			
Pertifications		C			
MC and Safety standards	EN	61000-6-2 (EMC); EN61000-6-3 (EMC)		ifety)	
rid codes		CEI 0-21 (IT); VDE AR-N 4105 (D	E); G98-G99 (UK); C10-11 (BE)		
Other Features					
ACKUP/OFF-GRID mode operation		Yes, with exte			
N-GRID/BACKUP/OFF-GRID selection mode		Yes, aut			
rid support (grid services)		Yes, if required by the			
Residential loads management		Voc. 1 dry cont	act 4A 250Vac		

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



DV invades Contractive Contrac	- DI V 50 AUY	DLV goolay	D1 1/ 2001/11	BLV 4000HH
PV inverter System with HV battery storage DC Inputs	DLX-500HV	DLX-600HV	DLX-800HV	DLX-1000HV
Maximum input power Maximum input voltage	7.5kW	9kW 100	12kW 0V	15kW
Minimum input voltage Nominal input voltage		200 720		
V MPPT voltage range		150V -	950V	
OC voltage range - independent MPPTs @ Pdc max OC voltage range - MPPT connected in parallel @ Pdc max	385V - 850V @ 5kW 290V - 850V	500V - 850V @ 6.5kW 350V - 850V	655V - 850V @ 8.5kW 425V - 850V	770V - 850V @ 10kW 460V - 850V
Maximum power x MPPT Maximum MPPT power - Maximum imbalance	5kW	6.5kW 6.5kW @ MPPT1 + 2.5kW @ MPPT2	8.5kW	10kW
Maximum input current x MPPT	JKW @ IVIFF11 + 2.JKW @ IVIFF12	13	A	2 TOKW @ MIFFIT + 3KW @ MIFFIT
Short-circuit current x MPPT Jumber of MPPTs		15 2		
Maximum number of strings x MPPT lattery charger		1+	1	
Battery type		Lithi		
attery voltage range lax charging/discharging current		170V - 25		
lominal battery voltage	200V 5kW	240V 6kW	320V 8kW	400V 10kW
Max charging/discharging power communication interfaces	3KVV	CAN/R		TUKVV
C output rid connection		3W+ľ	I+PF	
n nominal power	5kVA	6kVA	8kVA	10kVA
P maximum active power IC voltage range	5kW	6kW 400Vac ±	8kW 15% (*)	10kW
Output nominal current Crid nominal frequency	7.2A	8.7A 50	11.5A	14.5A
requency range		47Hz - 5	3Hz (*)	
0S φ HD		1 (adj ±		
PS output	EIAIA			4014/4
laximum Smax power C voltage range	5kVA	6kVA 400Vac ±		10kVA
utput nominal current rid nominal frequency	7.2A	8.7A 50	11.5A	14.5A
itervention time		< 5 se	C (*)	
HD perating Performance		< 3	%	
laximum Effciency		97.0		
/eighted effciency (Euro) attery typical effciency		97 96		
rotective Devices C polarity reversal		As sta	ndard	
ATTERY polarity reversal		As sta	ndard	
ATTERY overload protection C short-circuit protection		As sta		
solation monitoring unit nterface protection and anti-islanding		As sta In compliance wit		
RCMU (Residual Current Monitoring Unit)		As sta	ndard	
OC Overvoltage protective device OC Overvoltage protective device		As sta		
ACTERY Overvoltage protection		As sta		
OC connectors		Quick co	nnectors	
C connectors		Spring contacts terminal		
ATTERY connection C switch		Quick co		
ATTERY automatic switch  ser Interface		Buil Graphic Touch Scre		
ommunication interfaces		USB/CAN Bus/RS4	85/Ethernet/WiFi	
xternal alarm signal latalogger		As sta Buil		
/arranties nvironmental Conditions		5 years (as standard	)/10 year (optional)	
mbient temperature		-20°C		
ower derating temperature range torage temperature		40°C -30°C		
elative humidity		5%95% witho	ut condensation	
oise levels laximum operating altitude without derating		< 50 dB(i	Dm .	
ollution degree classifcation stallation environmental category		PD Indoor, und		
hysical				
rotection rating vervoltage category (IEC 62109-1)		IP:	ERY inputs)	
ooling concept		III (AC o		
imensions (W x H x D) mm		476 x 73	5 x 170	
/eight tting system		25 Wall b		
afety		17dii 0		
rotection class C to AC isolation		Trasfori	nerless	
ATTERY to AC and DC isolation ertifications		Trasfori C	nerless	
MC and Safety standards	EN	61000-6-2 (EMC); EN61000-6-3 (EMC)	EN62109-1 (Safety); EN62109-2 (S	afety)
rid codes ther Features		CEI 0-21 (IT); VDE AR-N 4105 (E	E); G98-G99 (UK); C10-11 (BE)	
ACKUP/OFF-GRID mode operation		Yes, with exte		
N-GRID/BACKUP/OFF-GRID selection mode trid support (grid services)		Yes, aut Yes, if required by the		
lesidential loads management		Yes, 1 dry cont		

 $<sup>(^{\</sup>star})$  The specifed range may vary according to the mains connection standard enforced in the country of installation





The ideal product for an existing PV plant if you are looking to implement energy storage and maximise self-consumption.

If your plant feeds a lot of current into the public grid during daytime, **DLX-AC** is the perfect choice to store energy for night time consumption.

AC investor Coston with IIV better stores	DLX-500AC	DLX-600AC	DLX-800AC	DLX-1000AC		
AC inverter System with HV battery storage AC output						
Grid connection			N+PE			
Sn nominal power	5kVA	6kVA	8kVA	10kVA		
P maximum active power	5kW	6kW 400Vac ±	8kW	10kW		
AC voltage range Output nominal current	7.2A	8.7A	11.5A	14.5A		
Grid nominal frequency	7.2A 8.7A 11.5A 14.5A 50Hz					
Frequency range		47Hz - 53Hz (*)				
Cos φ		1 (adj	± 0.80)			
THD		< 3	3%			
Battery charger						
Battery type			ium			
Battery voltage range			- 500V			
Max charging/discharging current Nominal battery voltage	200V	240V	5A 320V	400V		
Max charging/discharging power	5kW	6kW	8kW	10kW		
Communication interfaces	O.C.	CAN/F		TORTY		
EPS output						
Maximum Smax power	5kVA	6kVA	8kVA	10kVA		
AC voltage range		400Vac ±	/			
Output nominal current	7.2A	8.7A	11.5A	14.5A		
Grid nominal frequency			Hz			
Intervention time		< 5 s				
THD		< 3	3%			
Operating Performance Maximum Effciency		07	7%			
Weighted effciency (Euro)			% 8%			
Protective Devices		30	7/0			
BATTERY polarity reversal		As sta	indard			
BATTERY overload protection		As sta				
AC short-circuit protection		As sta	ındard			
Isolation monitoring unit			ındard			
Interface protection and anti-islanding		In compliance wit				
RCMU (Residual Current Monitoring Unit)		As sta	ındard			
AC Overvoltage protective device		As sta				
BATTERY Overvoltage protection		As sta	ındard			
Accessories Supplied AC connectors		Curing contacts towning	Latrin MOF ashle gland			
BATTERY connection			l strip, M25 cable gland nnectors			
BATTERY automatic switch			It-in			
User Interface			en 4.3" colour LCD			
Communication interfaces			485/Ethernet/WiFi			
External alarm signal		As sta	ındard			
Datalogger		Bui	lt-in			
Warranties		5 years (as standard	d)/10 year (optional)			
Environmetal Conditions						
Ambient temperature			+60°C			
Power derating temperature range		40°C+60°C -30°C +70°C				
Storage temperature Relative humidity		-30°C+70°C				
Noise levels		5%95% without condensation < 50 dB(A) @ 1m				
Maximum operating altitude without derating		2000m				
Pollution degree classifcation		PD 3				
nstallation environmental category			conditioned			
Physical						
Protection rating		IP				
Overvoltage category (IEC 62109-1)		II (BATTERY input)				
,		III (AC output) I-cool, forced cooling				
Cooling concept						
Dimensions (W x H x D) mm Weight			35 x 170			
Weight Fitting system		21Kg Wall bracket				
Safety		vvdII U	TUONUL			
Protection class						
BATTERY to AC isolation		Trasfor	merless			
Certifications			E			
EMC and Safety standards		EN61000-6-2 (EMC); EN61000-6-3 (EMC); EN62109-1 (Safety); EN62109-2 (Safety)				
Grid codes		-21 (IT); VDE AR-N 4105 (I				
Other Features						
BACKUP/OFF-GRID mode operation			ernal interlock			
ON-GRID/BACKUP/OFF-GRID selection mode			tomatic			
Grid support (grid services) Residential loads management	Yes, if required by the applied grid code					
	Yes, 1 dry contact 4A 250Vac					

<sup>(\*)</sup> The specifed range may vary according to the Grid connection standard enforced in the country of installation

## SMART MONITO-RING AND REMOTE CONTROL

Thanks to the embedded display, it's possible to rapidly consult and set up the system. Moreover, you can always check the performance of the system through the **DELIOS** APP and WEB PORTAL.



INTEGRATED DATA LOGGER



ETHERNET CABLE OR WIFI-CONNECTION



USB-PORT FOR FIRMWARE UPDATE AND SYSTEM DATA DOWNLOAD



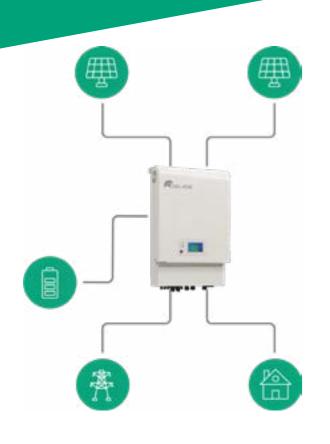
# KEEP YOUR PV-PLANT ALWAYS UNDER CONTROL

From app homepage (GENERAL) it's possible to have real-time system updates:

- -PV production
- -Household consumptions
- -Grid feed-in and consumption
- -Battery charge status



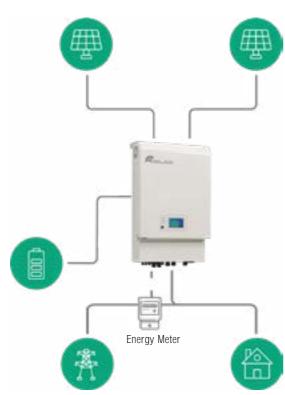
# DLS CONFIGURATION SCHEMES





HYBRID DLS WITH EXTER-NAL METER

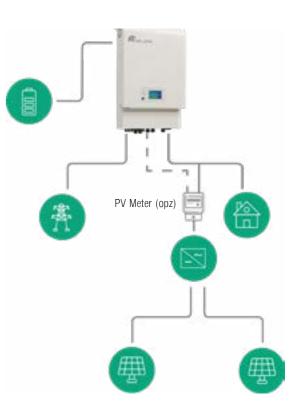
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**DLS SMART ISLAND** 

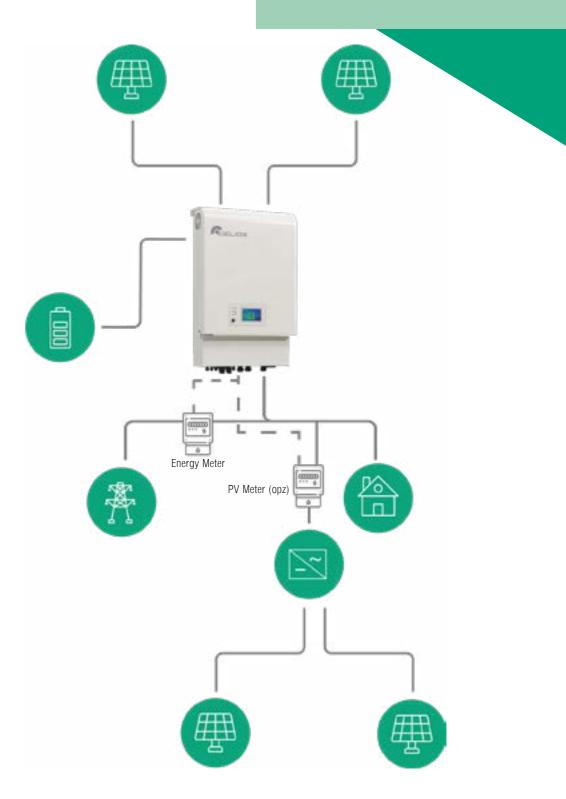
RETROFIT DLS AC



# DLS HYBRID AC

# # PV Meter (opz)

# DLS HYBRID AC WITH EXTERNAL METER

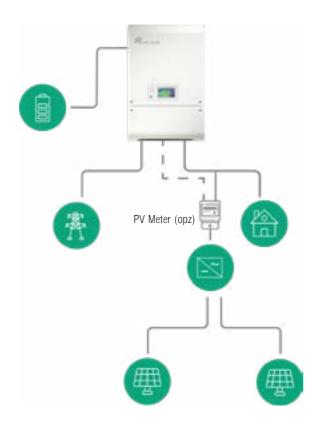


# DLX CONFIGURATION SCHEMES

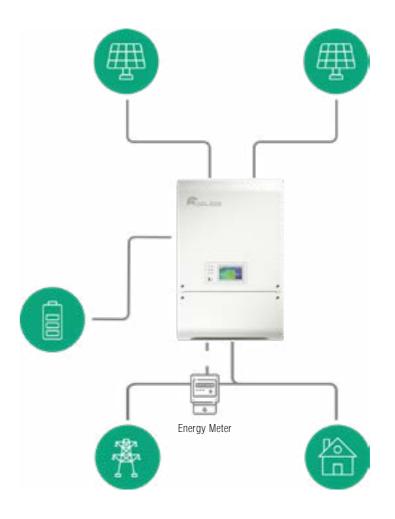


DLX WITH EXTERNAL METER

DLX AC WITH EXTERNAL METER



# DLX HV WITH EXTERNAL METER







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