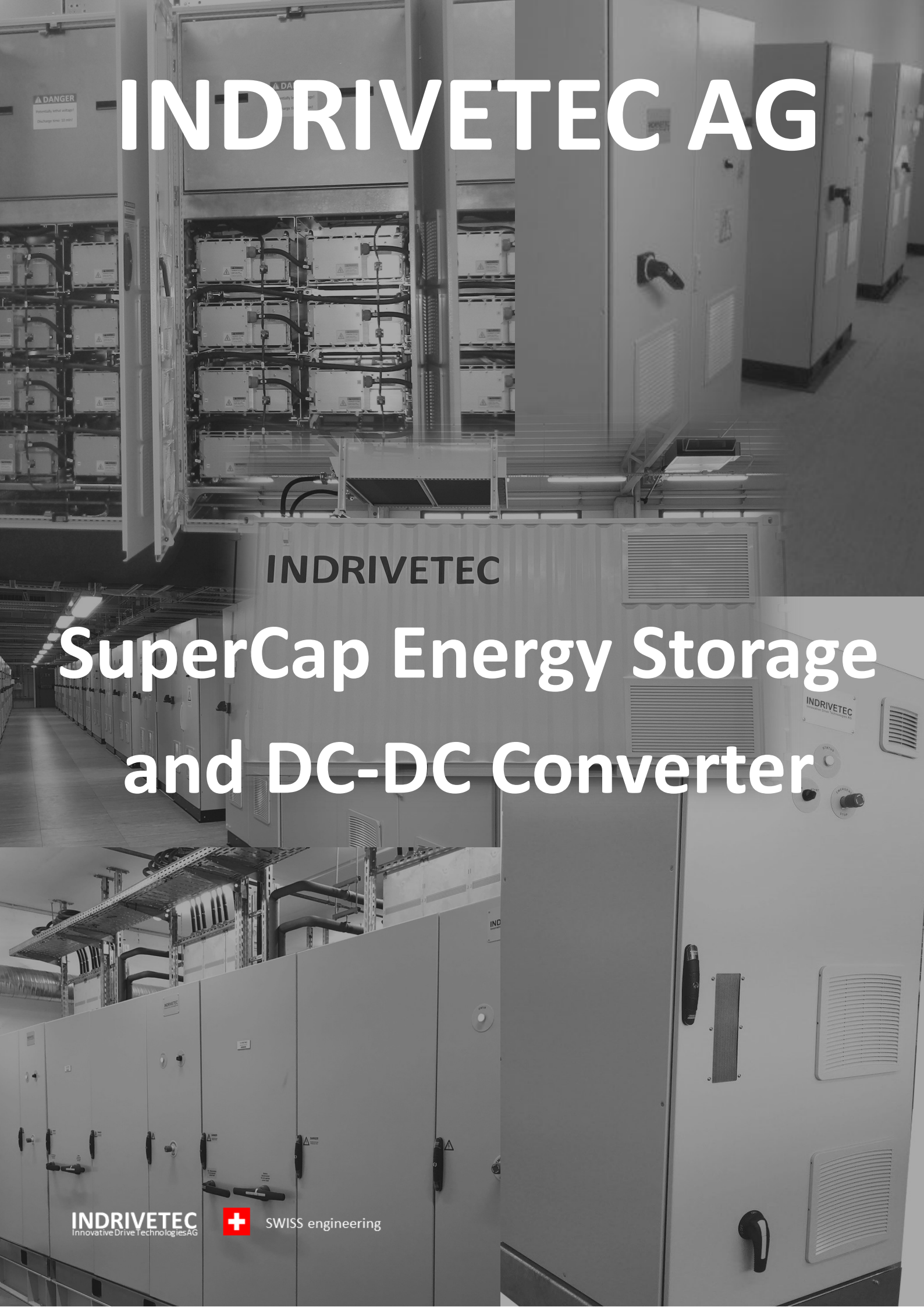




INDRIVETEC AG

INDRIVETEC

SuperCap Energy Storage and DC-DC Converter

INDRIVETEC
Innovative Drive Technologies AG



SWISS engineering

INDRIVETEC AG

SuperCap Energy Storage SCES

the flexible and versatile product family for short-time energy storage

Bidirectional DC-DC converter

Fully operational control

High efficient control algorithm

Integrated functionalities

DC-applikation	SCES300-DC	SCES600-DC	SCES900-DC
Nominal DC power	300 kW	600 kW	900 kW
Maximum DC power	600 kW	1200 kW	1800 kW
DC voltage range	900 VDC– 1100 VDC		
Minimum DC voltage	500 VDC		
Electrical isolation	no		
Useable energy	2.5 MJ	5 MJ	7.5 MJ
Control mode	current-, voltage-, power control and droop mode		
Auxiliary power supply	1 x 230 VAC, other upon request		
Dimensions (W/D/H)	1600/1000/2500 mm	2600/1000/2500 mm	3600/1000/2500 mm
Weight	2300 kg	3000 kg	3800 kg
Operation temperature	+5... +35°C (extended range upon request)		
Storage temperature	-15... +45°C (extended range upon request)		
Enclosure type	IP40 indoor		
Cooling	air-cooled		
Certification	CE, UL/UR, CSA, other upon request		
Standards	EN61000-62, EN61000-6-4, EN62477-1, IEC62103		
FlexConvert	FC500	FC1000	FC1500

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FlexConvert DC-DC Converter

the flexible and versatile product family for DC-coupling

Bidirectional DC-DC converter

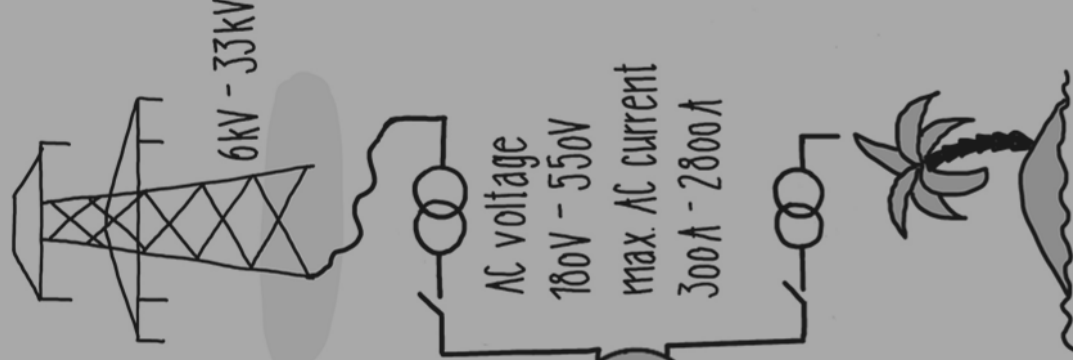
DC-coupling from renewables

High efficient controlling

Integrated functionalities

Input DC	FC-DC450-PV	FC-DC450-ESS
Maximum DC power	500 kWp	500 kW
Maximum DC voltage	1200 V DC	1100 V DC
Minimum DC voltage	400 VDC (start)	0 VDC
MPP(T) voltage range	450 VDC—1000 VDC	-
Maximum DC current	1050 A	
Output DC		
Maximum DC voltage	1100 VDC	
Minimum DC voltage	500 VDC	
Maximum DC current	1000 A	
Maximum efficiency	98,5 %	
General data		
Auxiliary power supply	1 x 230 VAC, other upon request	
Protection	Disconnecter, Fuses, Overvoltage, Overcurrent	
Dimensions (L x W x H)	800 x 800 x 2000 mm	
Weight	650 kg	
Operation temperature	-25... +50°C (extended range upon request)	
Enclosure type	IP54 indoor, IP55 outdoor	
Cooling	air-cooled	
Communication interface	Profibus, CAN, Modbus TCP, Profinet, other upon request	

FlexConvert ESS + PV



Liquid or air cooling
-25°C +55°C

FlexConvert ESS+PV



SuperCaps
batteries

FlexConvert BESS



Supply of high
quantity of energy
for reliable power



Higher system
efficiency



Swiss engineering
and quality



Fully integrated system
to operator

MPPT DC voltage

min. 450V - max. 1100V

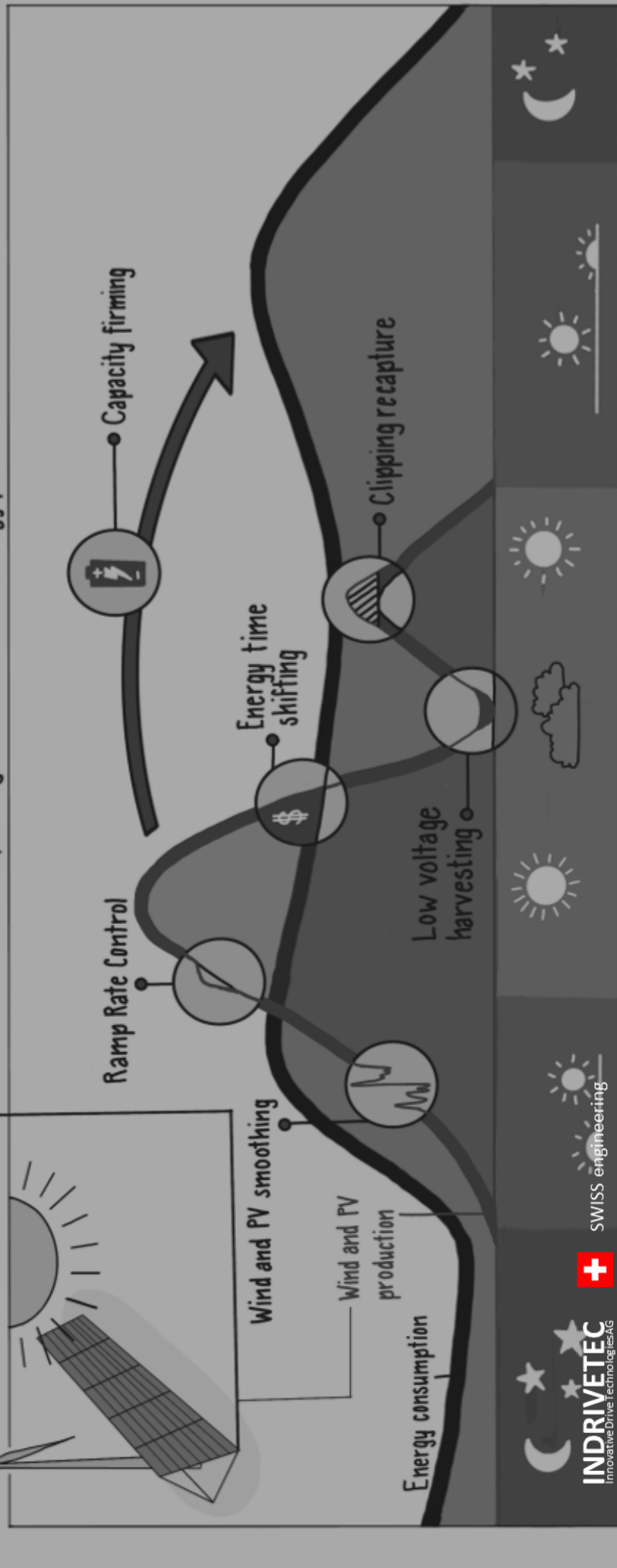
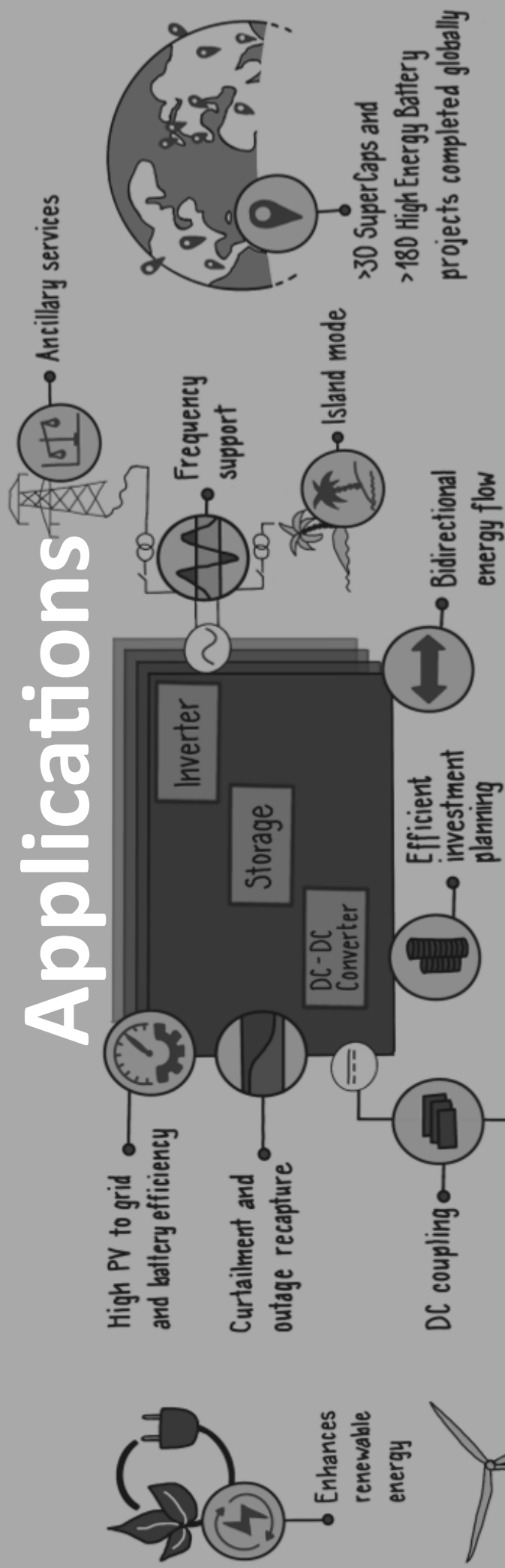
various compatible

storages, e.g.

Lithium-Ion, SoS,

Redox-Flow, SuperCaps

Applications



Power capability table FlexConvert

Nominal AC Power

Nominal AC Voltage		200 kVA	250 kVA	320 kVA	400 kVA	500 kVA	750 kVA	1000 kVA	1250 kVA	1500 kVA	1750 kW	2000 kVA	2500 kVA	3000 kVA
300 VAC	FC320	FC500	FC500	FC500	FC750	FC750	FC1500	FC1500	FC2000	FC2000				
350 VAC	FC250	FC320	FC500	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC2000				
400 VAC	FC250	FC320	FC500	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC2000	FC2000			
440 VAC	FC250	FC250	FC320	FC320	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC2000	FC2000		
480 VAC	FC250	FC250	FC320	FC320	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC1500	FC2000		
520 VAC	FC250	FC250	FC320	FC320	FC500	FC500	FC750	FC1000	FC1000	FC1500	FC1500	FC2000	FC2000	
600 VAC	FC250	FC250	FC250	FC250	FC320	FC500	FC750	FC750	FC1000	FC1500	FC1500	FC2000	FC2000	FC2000
690 VAC	FC250	FC250	FC250	FC250	FC320	FC320	FC500	FC750	FC750	FC1000	FC1500	FC1500	FC1500	FC2000

Technical data are subject to change, even for reasons on country-specific deviations.
Indrivetec assumes no liability for errors and omissions.

Power capability table FlexConvert

Nominal AC Power

Minimum DC Voltage														
	200 kW	250 kW	320 kW	400 kW	500 kW	750 kW	1000 kW	1250 kW	1500 kW	1750 kW	2000 kW	2500 kW	2750 kW	
400 VDC	FC500	FC500	FC750	FC750	FC1000	FC1500	FC2000	aggrato SWITCH & SURGE PROTECT 963	FC2000	aggrato SWITCH & SURGE PROTECT 963	aggrato SWITCH & SURGE PROTECT 963	aggrato SWITCH & SURGE PROTECT 963	aggrato SWITCH & SURGE PROTECT 963	
450 VDC	FC500	FC500	FC750	FC750	FC1000	FC1500	FC2000		FC2000					
500 VDC	FC320	FC500	FC500	FC750	FC750	FC1500	FC2000	FC2000	FC2000	FC2000	FC2000	FC2000	FC2000	
550 VDC	FC320	FC500	FC500	FC750	FC750	FC1500	FC2000	FC2000						
600 VDC	FC250	FC320	FC500	FC750	FC750	FC1000	FC1500	FC2000	FC2000	FC2000	FC2000	FC2000	FC2000	
650 VDC	FC250	FC320	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC2000					
700 VDC	FC250	FC320	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC1500	FC2000	FC2000	FC2000	FC2000	
750 VDC	FC250	FC250	FC500	FC500	FC750	FC750	FC1000	FC1500	FC1500	FC2000				
800 VDC	FC250	FC250	FC320	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC1500	FC2000	FC2000	FC2000	
850 VDC	FC250	FC250	FC320	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC1500	FC2000			
900 VDC	FC250	FC250	FC320	FC500	FC500	FC750	FC1000	FC1500	FC1500	FC1500	FC2000	FC2000	FC2000	
950 VDC	FC250	FC250	FC250	FC320	FC500	FC750	FC1000	FC1000	FC1500	FC1500	FC2000			
1000 VDC	FC250	FC250	FC250	FC320	FC500	FC750	FC750	FC1000	FC1500	FC1500	FC2000	FC2000	FC2000	
1100 VDC	FC250	FC250	FC250	FC320	FC500	FC750	FC750	FC750	FC1000	FC1500	FC1500	FC2000	FC2000	

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