

"BRICK"

FlexConvert-PCS –1100

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FlexConvert-BESS  
Battery Rack

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IDT-Energy  
Management System

# INDRIVETEC AG

## "bricks up" flexible energy storage systems

## FlexConvert BESS-Single

One container energy storage system solution including:

Enclosure, Inverter, 150 kWh battery racks, HVAC, EMS and Control

BESS System Parameter	FC-BESS-320	FC-BESS-1000	FC-BESS-2000
Nominal power range	up to 350 kW	up to 1150 kW	up to 2250 kW
Rated capacity range	up to 600 kWh	up to 1200 kWh	up to 2400 kWh
Grid voltage	Low-voltage and medium voltage		
Grid Support	ARN 4110, ARN 4120, ARN 4130		
Power factor cos (φ)	0 ± 1 (four-quadrant operation)		
PCS AC voltage	520 V		
PCS AC operating current	385 A	1260 A	2520 A
Grid frequency	50 Hz / 60 Hz		
Cell Chemistry	Lithium Iron Phosphate LiFePO4		
Battery performance	7000 cycles 93%DoD, 0.5C and 5600 cycles 93%DoD, 1C		
System efficiency (round-trip)	> 88%		
<b>Inverter data</b>			
Type	FC320	FC1000	FC2000
Maximum PCS AC current	420 A	1400 A	2800 A
Max. inverter efficiency	98,4 %		
<b>General data</b>			
Dimensions (L x W x H)	3600 x 2630 x 2850 mm	6100 x 2500 x 2900 mm	12200 x 2500 x 2900 mm
Weight	11 tons	20 tons	45 tons
Ambient temperature	-20... +45°C (extended range upon request)		

*Technical data are subject to change, even for reasons on country-specific deviations.  
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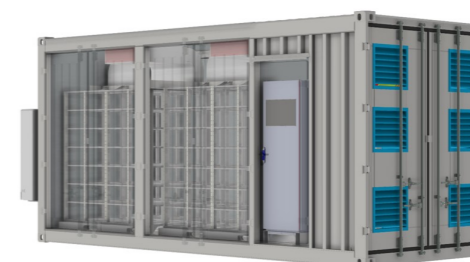
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## FlexConvert BESS

Battery Energy Storage System for multiple uses in the industrial, commercial and utility sector for operation in highly developed and weak grids

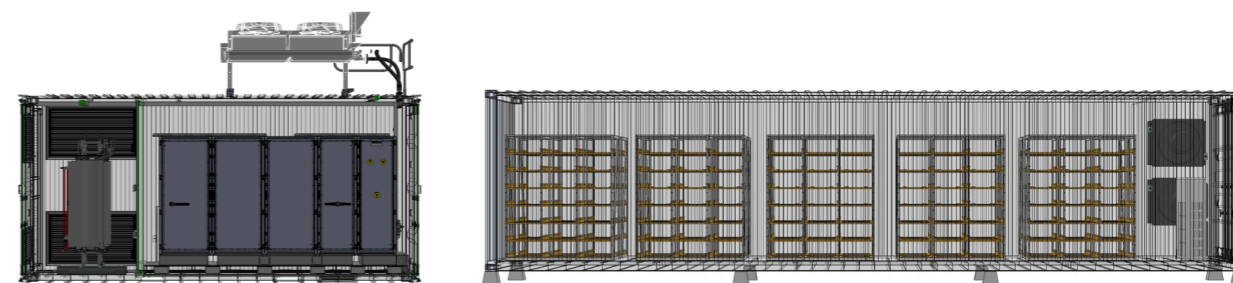
## FlexConvert BESS-Single

One container energy storage system



## FlexConvert BESS-Dual

Two container energy storage system







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FlexConvert-PCS-1100



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IDT-Energy Management System



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FlexConvert-BESS Battery Rack

## FlexConvert BESS-Dual

Two container energy storage system solution including: PCSU container, battery container, HVAC, EMS and Control

### FlexConvert-PCSU

AC-Connection	FC-PCSU-2500	FC-PCSU-6300
Nominal AC Power	up to 2250 kW	up to 5675 kW
Rated apparent power	up to 2500 kVA	up to 6300 kVA
Grid Support	ARN 4110, ARN 4120, ARN 4130	
Power factor cos (φ)	± 0 - 1.0 (four-quadrant operation)	
Grid voltage (LV-option)	170 V - 690 V	
Grid voltage (MV-option)	6 kV – 33 kV	
PCS AC operating current	up to 2520 A	up to 6300 A
Maximum PCS AC current	up to 2800 A	up to 7000 A
Grid frequency	50 Hz/60 Hz	
Max. efficiency	98.4 %	
DC-Connection		
Compatible storage	Lithium-Ion, NAS, Redox-Flow, Lead Acid, SoNiCl, fuel cells	
Renewables	Solar, Wind, Bio-energy, Ground heat, Hydrogen	
Max. DC current	up to 2600 A	up to 6550 A
DC voltage-range	270 VDC – 1100 VDC	
General data		
Container size	20ft. Container	40 ft. Container
Weight	up to 12 t	up to 20 t
Operation temperature	-20... +45°C (extended range upon request)	

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### FlexConvert-Battery Container

Battery System Parameter	IDT BESS-1200	IDT BESS-3000
Cell Chemistry	Lithium Iron Phosphate LiFePO4	
Rated capacity	1200 Ah	3000 Ah
Rated energy	up to 8 racks and 1200 kWh	up to 20 racks and 3000 kWh
Charge / discharge current	up to 1C	
FlexConvert BESS-Dual	FC-PCSU-2500, FC-PCSU-6300	
Battery performance	7000 cycles 93%DoD, 0.5C and 5600 cycles 93%DoD, 1C	
Rated voltage	998.4 VDC	
DC voltage range	873.6 VDC - 1092 VDC	
Cells in series	312	
Charging discharge method	CP	
General data		
Container size	20ft. Container	40ft. Container
Weight	up to 16 tons	up to 39 tons
Ambient temperature	-20... +45°C	
Noise level	< 78 dB(A) at 1 m distance	
Max. working altitude	1500 m (higher altitudes available upon request)	
Cooling	Forced air cooling	
Transportation Safety	UN 38.3 / IEC62619	
Fire extinguishing system	Can be integrated upon request	

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