

“BRICK”  
FlexConvert-PCS

“BRICK”  
FlexConvert-BESS  
Battery Rack

“BRICK”  
IDT-Energy  
Management System

INDRIVETEC AG  
"bricks up" flexible energy storage systems

## FlexConvert BESS-Single

One container energy storage system solution including:

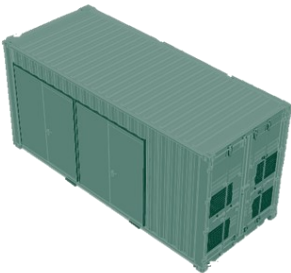
Enclosure, Inverter, 150 kWh battery racks, HVAC, EMS and Control

BESS System Parameter	FC-BESS-1000	FC-BESS-2000
Nominal power range	up to 1200 kW	up to 2400 kW
Rated capacity range	up to 8 racks and 1200 kWh	up to 16 racks and 2400 kWh
Grid voltage (LV option)	170 V - 690 V	
Grid voltage (MV option)	6 kV – 33 kV	
Power factor cos (φ)	0 ± 1 (four-quadrant operation) BDEW / ARN 4110	
AC nominal operating current	1260 A	2520 A
Grid frequency	50 Hz / 60 Hz	
Cell Chemistry	Lithium Iron Phosphate LiFePO4	
Battery performance	6000 cycles 90%DoD, 0.5C and 4000 cycles 90%DoD, 1C	
System efficiency (round-trip)	> 88%	
Inverter data		
Type	FC1000	FC2000
Maximum AC current	1400 A	2800 A
Harmonic distortion (THD I <sub>AC</sub> )	< 3 %	
Max. inverter efficiency	98,4 %	
General data		
Dimensions (L x W x H)	20 ft. 6100x2500x2900 mm	40 ft. 12200x2500x2900 mm
Weight	20 tons	32 tons
Ambient temperature	-25... +50°C (extended range upon request)	

## FlexConvert BESS

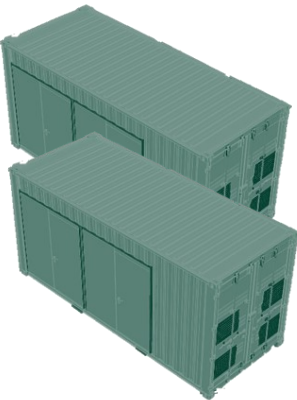
Battery Energy Storage System for multiple uses in the industrial, commercial and utility sector for operation in highly developed and weak grids

## FlexConvert BESS-Single



One container energy storage system  
FC-BESS-1000 and FC-BESS-2000

## FlexConvert BESS-Dual



Two container energy storage system  
FC-PCSU + IDT BESS or NAS<sup>®</sup> Battery





“BRICK”  
FlexConvert-PCS



“BRICK”  
IDT-Energy  
Management System



“BRICK”  
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-1260	FC-PCSU-2500	FC-PCSU-6300
Nominal AC Power	1150 kW	2250 kW	5675 kW
Rated apparent power	1260 kVA	2500 kVA	6300 kVA
Fault Ride Through	ARN 4110 and BDEW, other upon request		
Power factor cos (φ)	± 0 - 1.0 (four-quadrant operation)		
Grid voltage (LV-option)	170 V - 690 V		
Grid voltage (MV-option)	6 – 33 kV		
AC operating current	1260 A	2520 A	6300 A
Maximal AC current	1400 A	2800 A	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		
Max. DC current	1350 A	2600 A	6550 A
DC voltage-range	270 VDC —1150 VDC		
General data			
Container size	20ft. Container		40 ft. Container
Weight	10 t	12 t	20 t
Operation temperature	-25... +50°C (extended range upon request)		

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

## 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-1260 , FC-PCSU-2500, FC-PCSU-6300	
Battery performance	6000 cycles 90%DoD, 0.5C and 4000 cycles 90%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... +50°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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