

# INDRIVETEC AG

"bricks up" flexible energy storage systems

# INDRIVETEC AG

"bricks up" flexible energy storage systems

## FlexConvert-BESS-Triple



example FC-BESS-Triple configurations at cos phi: 0.9

1300 kW – 2980 kWh

1950 kW – 4470 kWh

2600 kW – 5960 kWh

3250 kW – 7450 kWh

3900 kW – 8940 kWh

## 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-Triple

PCS-1500 Outdoor

372.7 kWh Outdoor Rack

Outdoor EMS

## FlexConvert-BESS-Triple-CON



example FC-BESS-Triple-CON configurations at cos phi: 0.9

1300 kW – 3440 kWh

3250 kW – 6880 kWh

2600 kW – 10320 kWh

3250 kW – 13760 kWh

3900 kW – 13760 kWh

3900 kW – 15045 kWh

3900 kW – 20060 kWh

## FlexConvert-BESS-Triple-CON

PCS-1500 Outdoor

5015 kWh liquid-cooled 20HC container

3440 kWh liquid-cooled 20HC container

Outdoor EMS

## "BRICK"

### FlexConvert-BESS Battery Outdoor

Battery unit, liquid cooling, fire suppression  
and power distribution system

## "BRICK"

### IDT-Energy Management System-Outdoor

to control and monitor the performance  
of various power generating units

## "BRICK"

### FlexConvert-PCS-1500 Outdoor

flexible and versatile power conversion  
system for energy storage systems

## FlexConvert-BESS-Battery Outdoor

Battery System Param.	372.7 kWh Outdoor	3440 kWh 20HC CON	5015 kWh 20HC CON
Cell Chemistry	Lithium Iron Phosphate LiFePO4		
Nominal capacity	280 Ah		314 Ah
Rated energy	372.7 kWh	10 x 344.064 kWh	12 x 417.996 kWh
Charge / discharge current	up to 1C	up to 0.5C	
FlexConvert PCS	FC-PCS-1500 Outdoor		
Battery performance	7300 cycles 100%DoD, 0.5C		
Rated voltage	1331.2 VDC	1228.8 VDC	1331.2 VDC
DC voltage range	1165 VDC—1477 VDC	1075 VDC—1363 VDC	1165 VDC—1477 VDC
Cells in series	416	384	416
Charge discharge method	CP		
<b>General data</b>			
Dimensions (WxDxH)	1300x1360x2400 mm	6058x2896x2438 mm	
Weight	3800 kg	36 tons	43 tons
Ambient temperature	-20... +45°C		
Noise level at 1 m distance	< 75 dB(A)	< 80 dB(A)	
Max. working altitude	2000 m (higher altitudes available upon request)		
Cooling	Liquid cooling system		
Transportation Safety	UN 38.3 / IEC62619	UN 3536 / IEC62619	
Fire extinguishing system <i>NFPA855 compliant</i>	Aerosol	Gaseous fire	

## FlexConvert-PCS-1500 Outdoor

AC-Connection	FC1440-ML-O	FC2160-ML-O	FC2880-ML-O	FC3600-ML-O
Nominal AC Power	1300 kW	1950 kW	2600 kW	3250 kW
Rated apparent power	1440 kVA	2160 kVA	2880 kVA	3600 kVA
Fault Ride Through	ARN 4110, ARN 4120 and EN 50549, other upon request			
Power factor cos (φ)	± 0 - 1.0 (four-quadrant operation)			
PCS voltage	up to 730 V ( <i>optionally 900 V</i> )			
Grid voltage	Low-voltage and medium voltage			
AC operating current	1100 A	1650 A	2200 A	3300 A
Maximal AC current	1200 A	1800 A	2400 A	3600 A
Grid frequency	50 Hz/60 Hz			
Max. efficiency	98.6 %			
<b>DC-Connection</b>				
Compatible storage	Lithium-Ion, NAS, Redox-Flow, Lead Acid, SoNiCl, fuel cells			
Renewables	Solar, Wind, Bio-energy, Ground heat			
Max. DC current	700 A	1400 A	2800 A	3500 A
DC voltage-range	1164.8 VDC —1476.8 VDC			
<b>General data</b>				
Dimensions (W x D x H)	3600 x 800 x 2100 mm	4000 x 800 x 2100 mm	3600 x 1600 x 2100 mm	4000 x 1600 x 2100 mm
Weight	2900 kg	3500 kg	5800 kg	6400 kg
Operation temperature	-20... +45°C (extended range upon request)			