

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

1260 kW – 3440 kWh

1890 kW – 6880 kWh

2520 kW – 10320 kWh

3150 kW – 13760 kWh

3780 kW – 17200 kWh

FlexConvert-BESS-Triple-CON

PCS-1500 Outdoor

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 Parameter	372.7 kWh Outdoor Rack	3440 kWh 20HC CON
Cell Chemistry	Lithium Iron Phosphate LiFePO4	
Nominal capacity	280 Ah	
Rated energy	8 modules and 372.7 kWh	10 x 344.064 kWh racks
Charge / discharge current	up to 0.5 C	
FlexConvert PCS	FC-PCS-1500 Outdoor	
Battery performance	6000 cycles 95%DoD, 0.5C	
Rated voltage	1331.2 VDC	1228.8 VDC
DC voltage range	1164.8 VDC —1476.8 VDC	1075.2 VDC —1363.2 VDC
Cells in series	416	384
Charging discharge method	CP	
General data		
Cabinet dimensions (W x D x H)	1300 x 1360 x 2400 mm	6058 x 2896 x 2438 mm
Weight	4000 kg	36 tons
Ambient temperature	-20... +45°C	
Noise level	< 75 dB(A) <i>at 1 m distance</i>	< 80 dB(A) <i>at 1 m distance</i>
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	Aerosol <i>NFPA855 compliant</i>	NOVEC 1230 <i>NFPA855 compliant</i>

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 720 V			
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 %			
DC-Connection				
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			
General data				
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)			