

# INDRIVETEC AG

"bricks up" flexible energy storage systems

"BRICK" FlexConvert-PCS-1500 Battery Inverter Outdoor

## Technical data

AC connection on-grid and off-grid	FC1440-ML	FC2160-ML	FC2880-ML	FC3600-ML	FC4320-ML
Nominal AC Power	1300 kW	1950 kW	2600 kW	3250 kW	3900 kW
Rated apparent power	1440 kVA	2160 kVA	2880 kVA	3600 kVA	4320 kVA
Grid Support	ARN 4110, ARN 4120, ARN 4130 and EN 50549, other upon request				
Power factor cos ( $\varphi$ )	$\pm 0 - 1.0$ (four-quadrant operation)				
AC nominal operating voltage	690 V				
Minimum AC voltage	400 V (other upon request, see power capability table)				
Maximal AC voltage	760 V (other upon request, see power capability table)				
AC nominal operating current	1100 A	1650 A	2200 A	2750 A	3300 A
Maximal AC current	1200 A	1800 A	2400 A	3000 A	3600 A
Grid frequency	50 Hz/60 Hz				
Grid structure	IT, other upon request				
Maximum THD $I_{AC}$ current	< 3 % at nominal power (on-grid)				
Maximum THD $U_{AC}$ voltage	< 3 % at linear load (off-grid)				
Unbalance load capacity	100 % (off-grid)				
Max. efficiency	98.6 %				
External auxiliary power supply	1 x 230 VAC 50/60 Hz (ups supply), 3 x 400 VAC				
<b>DC connection</b>					
Maximal DC power	1400 kW	2100 kW	2800 kW	3500 kW	4200 kW
Number of battery inputs	1	1	2	2	2
Maximal DC current	1400 A	2100 A	2800 A	3500 A	4200 A
Minimum DC voltage	650 V (other upon request, see power capability table)				
Maximal DC voltage	1500 V				
<b>Protection</b>					
DC input protection	Overload, short circuit protection + active monitoring				
AC output protection	Overload, short circuit protection + active monitoring				
Overvoltage protection	DC Type II and AC Type II				
Grid monitoring	Yes				
Insulation monitoring	Yes (active or passive)				
<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	4000 x 1600 x 2100 mm
Weight	2900 kg	3500 kg	5800 kg	6400 kg	7000 kg
Ambient temperature	-20... +45°C (extended range upon request)				
Humidity	100 % outdoor				
Enclosure type	IP54 outdoor (according EN60529)				
Cooling	Fully closed cabinet with liquid cooling (no additional air condition required)				
CE conformity / EMC	CE, UL/UR, CSA other upon request				
Applicable standards	EN61000-6-2, EN61000-6-4, EN62477-1, IEC62103				
Communication interfaces	Ethercat, EtherNet/IP, Modbus TCP, Profinet, other upon request				

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

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## "BRICK" FlexConvert-PCS-1500 Battery Inverter Outdoor

### FlexConvert-PCS-1500 Battery Inverter Outdoor

the flexible and versatile power conversion system for high voltage battery system

#### System advantages

Multi-level topology for maximum efficiencies and low harmonics

Compatible with high voltage battery system

Bidirectional power conversion system with full four-quadrant operation

Battery charge and discharge management

Reliable power supply and energy storage for a large range of on-grid and off-grid applications.

Black start and island grid / grid forming function

Compact and energy-efficient cooling concept, smallest unit volume and lowest weight per kW

Frequency and voltage regulation and reactive power control

Inertia control and short circuit power control

#### Power capability table FlexConvert

Power capability table FlexConvert			Rated apparent power				
Nominal AC voltage	Minimum DC voltage	Maximum DC voltage	FC1440-ML	FC2160-ML	FC2880-ML	FC3600-ML	FC4320-ML
400 VAC	650 VDC	1500 VDC	840 kVA	1260 kVA	1680 kVA	2100 kVA	2520 kVA
450 VAC	725 VDC	1500 VDC	940 kVA	1410 kVA	1880 kVA	2350 kVA	2820 kVA
500 VAC	820 VDC	1500 VDC	1040 kVA	1560 kVA	2080 kVA	2600 kVA	3120 kVA
550 VAC	900 VDC	1500 VDC	1150 kVA	1725 kVA	2300 kVA	2875 kVA	3450 kVA
600 VAC	975 VDC	1500 VDC	1250 kVA	1875 kVA	2500 kVA	3125 kVA	3750 kVA
630 VAC	1025 VDC	1500 VDC	1310 kVA	1965 kVA	2620 kVA	3275 kVA	3930 kVA
660 VAC	1075 VDC	1500 VDC	1380 kVA	2070 kVA	2760 kW	3450 kVA	4140 kVA
<b>690 VAC</b>	<b>1120 VDC</b>	<b>1500 VDC</b>	<b>1440 kVA</b>	<b>2160 kVA</b>	<b>2880 kVA</b>	<b>3600 kW</b>	<b>4320 kVA</b>
730 VAC	1190 VDC	1500 VDC	1520 kVA	2275 kVA	3035 kVA	3795 kVA	4550 kVA
800 VAC*	1245 VDC	1500 VDC	1660 kVA	2495 kVA	3325 kVA	4160 kVA	4990 kVA
900 VAC*	1460 VDC	1500 VDC	1870 kVA	2800 kVA	3740 kVA	4675 kVA	5610 kVA

\* optional

