

Modular Design

PCS	50 Power	100 Power	150 Power	200 Power	250 Power
Rated Output Power	50 kW	100 kW	150 kW	200 kW	250 kW
Adaptable Usable Capacity (100 kWh per Cabinet)	100 kWh	100 kWh	-	-	-
	200 kWh	200 kWh	200 kWh	200 kWh	-
	300 kWh	300 kWh	300 kWh	300 kWh	300 kWh
	400 kWh	400 kWh	400 kWh	400 kWh	400 kWh
	500 kWh	500 kWh	500 kWh	500 kWh	500 kWh
	-	-	600 kWh	600 kWh	600 kWh
	-	-	-	700 kWh	700 kWh
	-	-	-	800 kWh	800 kWh

PCS	300 Power	400 Power	500 Power
Rated Output Power	300 kW	400 kW	500 kW
Adaptable Usable Capacity (125 kWh per Cabinet)	375 kWh	-	-
	500 kWh	500 kWh	500 kWh
	625 kWh	625 kWh	625 kWh
	750 kWh	750 kWh	750 kWh
	875 kWh	875 kWh	875 kWh
	1000 kWh	1000 kWh	1000 kWh

CAUTION: READ SAFETY AND INSTALLATION INSTRUCTIONS BEFORE USING THE PRODUCT.

TrinaCommercial 50-500 Power (LFP Type Battery)

Trina Energy Storage Solutions for Commercial Application



Most Affordable High-Quality Commercial Solution (Three-phase)

Rated Power : 50 kW ~ 500 kW

Usable Capacity: 100 kWh - 1 MWh

Warranty: 5 Years Product System, 10 Years Battery Performance

Germany
Trina Energie Storage Vertrieb und Service GmbH
Tel: +49 (0) 69 75844 361
Email: eu.sales@trinabess.com
Add: Otto-Schoff-Str. 4, 60438, Frankfurt, Germany

Oceania
Trina Energy Storage Solutions (Australia) Pty. Ltd.
Tel: +61 2 8034 6313
Email: australia.sales@trinabess.com
Add: Suite 60, 20 - 28 Maddox Street, Alexandria, NSW 2015, Australia

America
Sales and Technical Representation
Tel: +1 800 696 7114
Email: us.sales@trinabess.com
Add: 100 Century Center, Suite 501 San Jose CA 95112

China
Trina Energy Storage Solutions (Jiangsu) Co., Ltd.
Tel: +86 519 8517 6686
Email: trinabess@trinasolar.com
Add: No. 2 Tianhe Road, Trina PV Park, New District, Changzhou, Jiangsu

Japan
Trina Energy Storage Japan Co., Ltd.
Tel: +81 (0) 3 6432 0581
Email: jp.sales@trinabess.com
Add: 21F World Trade Center Building, 4-1, 2-chome, Hamamatsu-cho, Minato-ku, Tokyo 105-6121 Japan

Singapore
Trina Energy Storage Solutions (Singapore) PTE. Ltd.
Tel: +86 519 8517 6686
Email: trinabess@trinasolar.com
Add: 600 North Bridge Road, #12-01 Parkview Square, Singapore 188778



Proven Safety



Reliable Performance



Visualisation



Plug & Play



Modular Customised



Multi-Function



Self-Consumption

Inverter Parameters (PCS)	50 Power	100 Power	150 Power	200 Power	250 Power
DC Input					
Voltage Range	500 ~ 850 V				
Max DC Current	110 A	220 A	330 A	440 A	550 A
Max DC Power	55 kW	110 kW	165 kW	220 kW	275 kW
AC Output (On-Grid Mode)					
Rated Output Power	50 kW	100 kW	150 kW	200 kW	250 kW
Output Voltage	400 V (± 15%)				
Rated Output current	72 A	144 A	216 A	288 A	360 A
Output Frequency	50 Hz (± 2.5 Hz)				
Power Factor	1 leading to 1 lagging (Dependent on Load)				
AC Output (Off-Grid Mode) ¹					
Output Voltage	400 V (± 10%)				
Output Frequency	50 Hz				
Other					
Peak Efficiency	97.3%				
Installation	Floor-standing				
AC Connection	3P + N + PE				
Topology	Transformer				
Cooling	Forced Air Cooling				
Noise	≤ 70 dB				
Max Elevation	3000 m				
Dimension (W x H x D)	800 x 2160 x 800 mm			1200 x 2160 x 800 mm	
Max Weight	465 kg	680 kg	910 kg	1150 kg	1280 kg
IP Protection Class	IP 20				
Certificate ³	CE				

Battery Parameters (Single Module)	
Battery Voltage	615 V (538 V ~ 692 V)
Max. Battery Current (Charge & Discharge)	180 A
Total Battery Capacity	110 kWh
Usable Battery Capacity	100 kWh
Dimension (W x H x D)	550 x 2160 x 800 mm
Weight	≤ 1150 kg
Battery Cell	LFP
DOD	90 %
Cycle Life	> 4000
IP Protection Class	IP 21
Certificate	CE, UN 38.3

System	
Humidity	0 ~ 95 %
Operating Temperature Range ⁴	+5 ~ 35 °C
Communication	Display, Ethernet, ModBusTCP/IP, RS485, CAN 2.0
Warranty	5 years product system, 10 years battery performance

1. Off-grid function optional (require additional Auto Transfer Switch)
 3. More certificates will achieved according to requirement of various countries
 4. +5 ~ 20 °C with derating

Inverter Parameters (PCS)	300 Power	400 Power	500 Power
DC Input			
Voltage Range	600 ~ 900 V		
Max DC Current	524 A	698 A	873 A
Max DC Power	330 kW	440 kW	550 kW
AC Output (On-Grid Mode)			
Rated Output Power	300 kW	400 kW	500 kW
Output Voltage	400 V (± 15%)		
Rated Output current	456 A	608 A	760 A
Output Frequency	50 Hz (± 2.5 Hz)		
Power Factor	1 leading to 1 lagging (Dependent on Load)		
AC Output (Off-Grid Mode) ²			
Output Voltage	400 V (± 10%)		
Output Frequency	50 Hz		
Other			
Peak Efficiency	98.2%		
Installation	Floor-standing		
AC Connection	3P + PE		
Topology	Transformerless		
Cooling	Forced Air Cooling		
Noise	≤ 70 dB		
Max Elevation	3000 m		
Dimension (W x H x D)	1100 x 2160 x 800 mm		
Max Weight	520 kg	570 kg	600 kg
IP Protection Class	IP 20		
Certificate ³	CE		

Battery Parameters (Single Module)	
Battery Voltage	768 V (672 V ~ 864 V)
Max. Battery Current (Charge & Discharge)	180 A
Total Battery Capacity	138 kWh
Usable Battery Capacity	125 kWh
Dimension (W x H x D)	550 x 2160 x 800 mm
Weight	≤ 1400 kg
Battery Cell	LFP
DOD	90 %
Cycle Life	> 4000
IP Protection Class	IP 21
Certificate	CE, UN 38.3

System	
Humidity	0 ~ 95 %
Operating Temperature Range ⁴	+5 ~ 35 °C
Communication	Display, Ethernet, ModBusTCP/IP, RS485, CAN 2.0
Warranty	5 years product system, 10 years battery performance

2. Off-grid function optional (require additional Auto Transfer Switch and Transformer)
 The actual Max. charging / discharging will be depending on different output voltage of connected battery bank.