



Power Conversion System

(With isolation transformer)



> APPLICATION AREA



MEGA series energy storage converter is developed based on the application requirements of large C&I such as peak load shifting, battery backup, etc. It adopts full digital control technology, integrates the leading technological achievements of contemporary power electronics, and the highest efficiency of the product reaches 97.5%. Support multi-machine parallel function, can meet the power demand of 30kW~3MW.

> KEY STRENGTHS

- Friendly and Flexible**
 - > Reactive power, active power adjustable.
 - > Off-grid cold start function, support 4 pcs in parallel .
- Safe and Reliable**
 - > Built-in isolation transformer, adapt to impact load.
 - > Redundant design for auxiliary power supply.

- Abundant Configuration**
 - > Built -in static transfer switch.

- Intelligent and Efficient**
 - > Highest power density, maximum efficiency reach 97.5%.

DC(battery)

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS
Voltage range (V)	250~850	320~850	420~850	420~850	420~850	500~850
Max. Current (A)	137	178	270	405	673	1,128

AC(on-grid)

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS
Max output power(kVA)	33	55	110	165	275	550
Rate output power(kW)	30	50	100	150	250	500
Rated voltage(V)	400					
Voltage range(V)	320~460					
Rated current(A)	43	72	144	216	361	722
Max. output current(A)	48	80	159	238	397	794
Rated frequency (Hz)	50/60					
Frequency range (Hz)	45~55/55~65					
THDi	<3%					
Power factor	1lagging-1leading (Settable)					
AC connection	3W+N+PE					

AC(off-grid)

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS
Rated voltage(V)	400					
THDU	<1% Linear <5% Nonlinear					
Rated frequency(Hz)	50/60					
Overload capacity	110% long-term					

General data

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS
Max.efficiency	96.3%	96.5%	97.1%	97.1%	97.3%	97.5%
Ingress protection	IP21					
Noise emission (dB)	<70					
Operating temperature (°C)	-30~ 55					
Cooling	Forced air					
Relative humidity	0 ~95% non-condensing					
Operating altitude	5,000m(>3,000 Derating)					
Dimension W*D*H (mm)	800*800*1,900	800*800*1,900	800*800*1,900	800*800*1,900	1,200*800*2,050	1,600*1,050*2,050
Net Weight(kg)	621	712	936	1,057	1,582	2,665
Transformer ratio	100/400	200/400	270/400	270/400	270/400	315/400
Self-consumption (W)	<100					<208
On/ Off grid switching	Automatic					

Display and communication

Model	MEGA0030TS	MEGA0050TS	MEGA0100TS	MEGA0150TS	MEGA0250TS	MEGA0500TS
Display	LCD touch-screen					
BMS communication	RS485, CAN					
EMS communication	RS485, TCP/IP					
Certificates	IEC/EN62109-1/-2, IEC/EN 62477-1, IEC/EN 61000-6-2, IEC/EN 61000-6-4, CGC					