

Sinexcel



Charger Mode

AC input voltage	480V(423V-528V)
AC input current	60A(66A max)
AC input power	50kW(55kW max)
AC frequency	60Hz(59.5Hz-60.5Hz)
PV input voltage	600V(520V-900V, 520V-800V MPPT)
PV input current	110A Max
PV input power	50kW(55kW max)
Battery charge voltage	400V(250V-520V)
Battery charge current	150A max

Utility Interactive Mode

Battery discharge voltage	400V(250V-520V)
Battery discharge current	150A max
PV input voltage	600V(520V-900V, 520V-800V MPPT)
PV input current	110A Max
PV input power	50kW(55kW max)
AC output voltage	480V(423V-528V)
AC output current	60A
AC output power	50kW
AC frequency	60Hz(59.5Hz-60.5Hz)
AC output PF	0.8 leading to 0.8 lagging (configurable)

Stand-alone Mode

Battery discharge voltage	400V(250V-520V)
Battery discharge current	150A max
PV input voltage	600V(520V-900V, 520V-800V MPPT)
PV input current	110A Max
PV input power	50kW(60kW max)
AC output voltage	480V
AC output current	60A(66A max)
AC output power	50kW
AC frequency	60Hz
AC output PF	0.8 leading to 0.8 lagging (load depend)

SYSTEM

Peak efficiency	96.10%
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase Reverse, Fan/Relay Failure, OLP, DC GFDI, Anti-islanding (on/off) Configurable Limit: Upper/Lower AC Voltage/Frequency limit, Battery EOD voltage.
Installation	Floor-standing
AC connection	3P+N+PE
Isolation	Built-in Transformer
Cooling	Forced air cooling with replacable fan module
Noise	<65dB
Enclosure	IP20/NEMA1
Max elevation	3000m/10000feet (> 2000m/6500feet derating)
Operating temp.	-20°C to+50°C (>45°C power derating)
Humidity	0~95%
Size (W*H*D)	800*2160*800 (mm) / 31.5*85*31.5 (inches)
Weight	500kg/1100Lbs

COMMUNICATION

Display	Touch Screen
EMS protocol	ModBus TCP/IP , MESA
Socket	CAN, Ethernet, RS485
BMS protocol	CAN, ModBus RTU, MESA

STANDARD & COMPLIANCE

Safety	UL9540, UL1741
Grid	IEEE1547 /UL1741SA/CPUC RULE 21/HECO RULE 14H

Sinexcel



Charger Mode

AC input voltage	480V(423V-528V)
AC input current	120A(132A max)
AC input power	100kW(110kW max)
AC frequency	60Hz(59.5Hz-60.5Hz)
PV input voltage	600V(520V-900V, 520V-800V MPPT)
PV input current	220A Max
PV input power	100kW(110kW max)
Battery charge voltage	400V(250V-520V)
Battery charge current	300A max

Utility Interactive Mode

Battery discharge voltage	400V(250V-520V)
Battery discharge current	300A max
PV input voltage	600V(520V-900V, 520V-800V MPPT)
PV input current	220A Max
PV input power	100kW(110kW max)
AC output voltage	480V(423V-528V)
AC output current	120A
AC output power	100kW
AC frequency	60Hz(59.5Hz-60.5Hz)
AC output PF	0.8 leading to 0.8 lagging (configurable)

Stand-alone Mode

Battery discharge voltage	400V(250V-520V)
Battery discharge current	300A max
PV input voltage	600V(520V-900V, 520V-800V MPPT)
PV input current	220A Max
PV input power	100kW(110kW max)
AC output voltage	480V
AC output current	120A(132A max)
AC output power	100kW
AC frequency	60Hz
AC output PF	0.8 leading to 0.8 lagging (load depend)

SYSTEM

Peak efficiency	96.10%
Protection	OTP, AC OVP/UVP, OFP/UFP, EPO, AC Phase Reverse, Fan/Relay Failure, OLP, DC GFDI, Anti-islanding (on/off)

Configurable Limit: Upper/Lower AC Voltage/Frequency limit, Battery EOD voltage

Installation	Floor-standing
AC connection	3P+N+PE
Isolation	Built-in Transformer
Cooling	Forced air cooling with replacable fan module
Noise	<65dB
Enclosure	IP20/NEMA1
Max elevation	3000m/10000feet (> 2000m/6500feet derating)
Operating temp.	-20°C to +50°C (>45°C power derating)
Humidity	0~95%
Size (W*H*D)	800*2160*800 (mm) / 31.5*85*31.5 (inches)
Weight	650kg/1435Lbs

COMMUNICATION

Display	Touch Screen
EMS protocol	ModBus TCP/IP , MESA
Socket	CAN, Ethernet, RS485
BMS protocol	CAN, ModBus RTU, MESA

STANDARD & COMPLIANCE

Safety	UL9540, UL1741
Grid	IEEE1547 /UL1741SA/CPUC RULE 21/HECO RULE 14H