

SolaX-BOX



Technical Data

Model		Inverter+BMU			
		3K+2.5K	3.7K+2.5K	5K+2.5K	5K+5K
PV input	Max. recommended DC power [W]	3300	4000	5000	5000
	Max. DC voltage[V]	550	550	550	550
	Normal DC operating voltage[V]	360	360	360	360
	MPPT voltage range [V]	125-530	125-530	125-530	125-530
	Max. input current [A]	12	12/12	12/12	12/12
	Max. short circuit current [A]	15	15/15	15/15	15/15
	No. of MPP trackers	1	2	2	2
	Strings per MPP tracker	1	1	1	1
Standby AC input AC output	Input voltage [V], Frequency [Hz]	230/400, 50/60 3 Phase(3N,PE)			
	Grid configuration	TN-C,TN-S,TT			
	Rated operating current(Single Phase)[A]	63			
	Rated operating current(3 Phase)[A]	63			
EPS Output (With battery)	EPS rated power [VA]	2000			4000
	EPS rated voltage [V], Frequency [Hz]	230, 50/60			230, 50/60
	EPS rated current [A]	8.7			17.3
	EPS peak power[VA]	1.5xrated power, 10s			1.5xrated power, 10s
	Total harmonic distortion (THD)	<3%			<3%
	Switch time [S]	<5			<5
Inverter Output	Nominal AC power [W]	3000	3680	4600	4600
	Nominal AC voltage,range [V]	230, 180~270	230, 180~270	230, 180~270	230, 180~270
	Frequency [Hz]	50/60	50/60	50/60	50/60
	Nominal AC current [A]	13	16	20	20
	Max. AC current [A]	14.4	16	22.1	22.1
	Total harmonic distortion (THD)	<3%	<3%	<3%	<3%
	Power factor (rated power)	1	1	1	1
	Displacement power factor	0.90 leading...0.90 lagging			
Efficiency	MPPT efficiency	0.999			
	Inverter efficiency	0.976			
	Charge/discharge efficiency	0.94			
Battery data	Normal voltage [V]	48			
	Storage capacity	Up to 15KWH(adjustable)			
	Battery type	Lithium			
	DOD	80%			
	Cycle life	4000			
HMI interface	LCD	7" graphic LCD			
	Communication	Ethernet/Dry contact(Optional)/WIFI			
Dimensions	L*W*H [mm]	1626*678*655			
	Weight [Kg]	200 (with 6 batteries)			
Environment Limits	Degree of protection	IP20 (for indoor use)			
	EMC	IEC61000-6-2,IEC62109-6-3,IEC61000-3-2/-3-12,IEC61000-3-3/-3-11			
	Safety	IEC62109-1,IEC62109-2,IEC62040-1			
	Topology	Transformerless			
Others	Warranty [years]	5			
	Operating temperature range [°C] (Inverter)	-10~+50 (derating at 40)			
	Operating temperature range [°C] (Battery)	-10~+50			
	Storage stability range [°C]	-20~+60			
	Altitude [m]	<2000			
	Cooling concept	Forced airflow			
	Noise emission (Typical) [dB]	<40			