

Signal solar hybrid inverter Technical Data 20KVA & 40KVA													
	Model	10KVA	20KVA	30KVA	40KVA	50KVA	60KVA	80KVA	100KVA	120KVA			
	Rated Power(KW)	9KW	18KW	27KW	36KW	45KW	54KW	72KW	90KW	108KW			
	Rated Current(A)	15A	30A	45A	60A	76A	91A	133A	151A	182A			
	Output Power factor	0.9											
	Rated input voltage	380V ± 20%											
	Rated output voltage	350V ± 1%											
	Battery Voltage	360VDC											
	Battery Quantity	30 units ,12V											
	Working Mode	PV , AC replenish											
	PV Input	Maximum Voltage	750VDC										
Best working voltage (Vmp)		444VDC - 550VDC											
Float charging voltage		414V ± 1%											
Maximum Efficiency		≥ 98%											
Equalize charging voltage		428V ± 1%											
Maximum current		40A	60A	120A	180	240	300	360					
PV Input Arrays		1+1 (reserved)		2+1 (reserved)		3+1 (reserved)		4+4 (reserved)		5+3 (reserved)		6+2(reserved)	
MPPT modular		1+1 (reserved)		2+1 (reserved)		3+1 (reserved)		4+4 (reserved)		5+3 (reserved)		6+2(reserved)	
AC Rectifier	Input Voltage Range	Three phase 380V ± 20% (-10% -+20%ncan charge the battery)											
	Input frequency range	50Hz/60Hz (can be set backstage)											
	Frequency range	50Hz/60Hz ± 5Hz											
	Soft start	0 - 100% 10s											
	Power Factor	0.8											
	Float charging voltage(20°C)	410V ± 1%											
	Maximum voltage	415V ± 1%											
	Maximum charging current(A)	12	25	38	50	62	75	80	100	120			
	Batthey capacity allowed												
Inverter	Inverter Voltage	Three phase four line + G 380VAC											
	Phase Voltage setting	220-230-240 VAC (can be set backstage)											
	Output voltage accuracy	± 1%											
	Voltage transients range	± 5%											
	Transient recovery range	20 ms											
	Rated Frequency	50Hz/60Hz ± 1%											
	Frequency Tracking Range	50Hz/60Hz ± 3Hz											
	Crest factor	03:01											
	Wave	Pure Sinewave											
	THD	≤ 3%											
	Voltage unbalance degree	± 3 % (100% unbalance load)											
	Overload	≥ 105% - 110% transfer to bypass 1 hours later, recover when reduce load											
		≥ 110% - 125% transfer to bypass 10 minutes later, recover when reduce load											
≥ 125% - 150% transfer to bypass 1 minutes later, recover when reduce load													
≥ 150% transfer to bypass 10 seconds later, recover when user confirmed													
≥ 200% transfer to bypass 10 seconds later, recover when user confirmed													
Short circuit	System current limited, shut down immediately boot user confirmed												
Maximum efficiency %	≥ 90%	≥ 91%	92%	≥ 92%	≥ 93%	≥ 93%	≥ 93%	≥ 93%	≥ 93%	≥ 93%			
Bypass	Rated Voltage (V)	Three phases four line + G 380VAC											
	Voltage range	± 20%											
	Rated Frequency (Hz)	50Hz/60Hz ± 5Hz											
	Maximum Current	19	38	57	76	95	114	122	152	182			
Battery Management	End of discharge	315VDC											
	Charging Current setting	Factory settings is 0.15C. User can set 0.05 - 0.3C											
	Battery Intelligent management	Equalizing charging and float charging automatically transfer, automatic temperature compensation for battery(when battery detection not connected, default environment temperature)											
Transfer Time	Staggering depth of discharge sett	1.85V - 2.1v can be set by user											
	Inverter/Bypass transfer time	0ms											
Communication Interface	Inverter/Bypass transfer time	0ms											
	Remote control unit	Inverter on,off,abnormal clear,emergency power off											
	PC Monitoring interface	RS232, RS485, SNMP (Optional)											
Environment	Dry contact	Bypass input abnormal, rectifier input abnormal, system fault, system warning, low battery, overload, fans fault, generator ON/OFF											
	Operation Temperature	0 - 42 °C											
	Maximum relative humidity	90% (Non condensed)											
Other	Maximum Working Altitude	1000m (100m higher, 1% derated, max 4000m)											
	Cooling Way	Forced ventilation (fans speed varies with the load)											
	(inverter with load and temperatu	65											
	Mean time between failures(MTBF)	200,000 HOURS											
	Defend grade (EN60529)	IP20											
	Power line output standard	Bottom											
	Dimension (W X D X H)mm	IEC62040.1-1 EN62109.1.2010. EN62109-2-2011								1000 X 800 X 1700			
	Packing dmsion W X D X H)mm	600 X 700 X 1750								1090 X 890 X 1800			
Weight	250	280	300	320	345	360	400	420	445				