

Signal Solar inverter Technical Data sheet 7.5KVA & 10KVA						
Model	RPE3000	RPE4000	RPE3000	RPE5000	RPE6000	RPE8000
Power	3KW	4KW	3KW	5KW	6KW	8KW
Battery Voltage	96VDC		192VDC			
Working Mode	PV Priority/ AC Priority					
PV						
MPPT Voltage Range	96VDC - 200VDC		192VDC -400VDC			
Maximum Charge Current	10 - 60A		10 - 40A	10 - 60A		
PV panels configuration(suggestion)(Vmp)	120VDC - 142VDC		240 - 284VDC			
PV panels configuration(suggestion)(Vmp)	≤60A		≤40A	≤60A		
Conversion Efficiency	≥ 98%					
Display						
Panel Indicator	LCD + LED Panel display					
AC Mode						
Input Voltage Range	165VAC - 275VAC					
Input frequency range	45-70Hz (Automatically transfer to battery mode, if beyond this range)					
Output voltage Precision	220VAC ± 5%					
Input Power factor	≥ 0.8%					
Maximum Efficiency	≥ 88% (Inverter On)					
Overload	110% transfer to bypass in 255s; 120% go to bypass in 60s; 150% go to bypass in 10s					
Maximum charging current	8A		12A			
Short circuit protection	Electronic limited current output or turn bypass, air breaker protection					
Inverter Mode						
Inverter Output voltage	220VAC ± 5%					
Output frequency	50Hz/60Hz ± 1% frequency self adjusted					
Output Power Factor	1					
Distortion	≤ 5% Linear load					
PV - AC Transfer time	0 ms					
Maximum Efficiency	≥92%					
Inverter Overload	110% transfer to bypass in 255s ; 120% go to bypass 60s; 150% go to bypass in 10s					
Eco Mode (optional)	When Load < 5% the system will turn to bypass power supply(utility) in 1 min					
Short circuit protection	Electronic limited current output , turn the bypass or system to be automatic shutdown					
Alarm						
AC fails	1/4s; automatic sound elimination after 40s					
Battery Low Voltage	5/1s					
Overload	1/1s					
Communication (Optional)						
Output Communication	RS232/USB/RS485/SNMP (Setup available for regular start/shutoff)					
Dry contact	PV failure , battery low voltage , overload, bypass, Inverter failure, remote start generator dry contact signal					
Others						
Output connection	Terminal Block					
Surge Protection	Optional					
EMC	Accord with EN62040-2:2006,EN61000-3-2:2006:EN61000-3-3:2008					
IP Class	IP20					
Ambient temperature	0°C - 40°C					
Ambient humidity	10% - 90% (Non condensed)					
Noise	≤ 50DB					
Working altitude	2000m (every 100m increase derating 1%)					
Dimension (W x D x H)mm	560 x 265 x 725					
Packaging dimension (W x D x H)mm	662 x 360 x 905					
Weight(kg)	76	80	60	67	69	85
Packaging weight (kg)	85	89	69	76	78	94