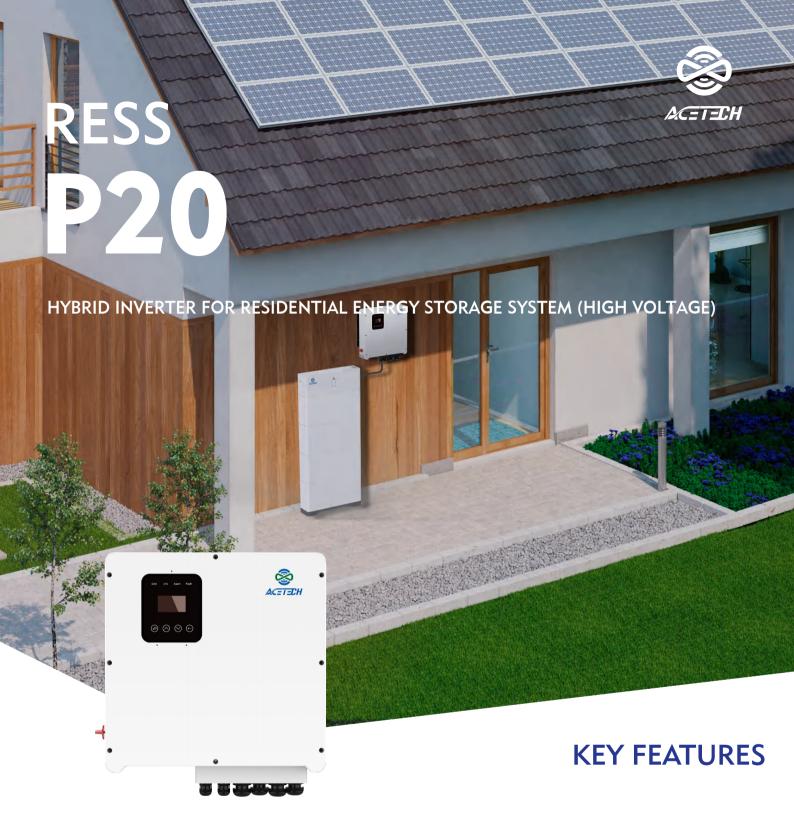




## **ACE GROUP**

A Creative Engine for a greener world





Hybrid Power Leverage

Supports PV, grid and battery power for home use. Power priority management to maximumly reduce electricity bills and backup critical loads.



High-Level Integration

DC coupled system. Shortens power conversion flow to get low power loss.



Highly Compatible With Self-designed Battery Energy Storage Systems

Deeply communicate and coordinate between inverter and battery, enhancing the system reliability considerably.



Multi-communication 
Capabilities

Supports RS485, CAN2.0, WIFI, and 4G communication.



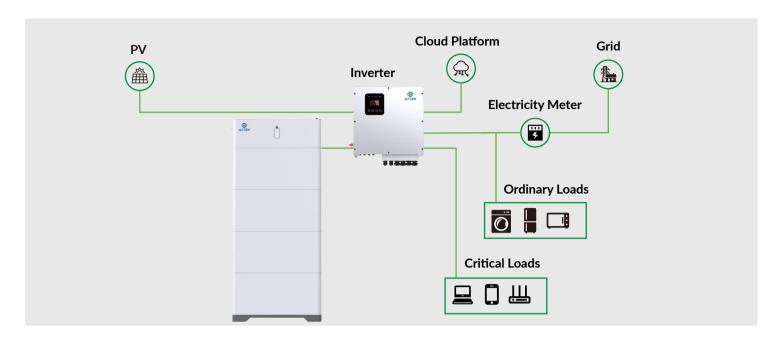
Compatible With High
Voltage Modular Battery System

The system will improve system efficiency and reduce the power loss.



Safe Design

Multiple protection and detection function provide a full safety guarantee.



Hybrid Inverter Model	RESS-3P-6K-H00	RESS-3P-8K-H00	RESS-3P-10K-H00	RESS-3P-12K-H00	RESS-3P-15K-H00
Output (On Grid)					
Rated Output Active Power	6000W	8000W	10000W	12000W	150000W
Max. Output Apparent Power	6600VA	8800VA	11000VA	13200VA	165000VA
Rated AC Voltage			380 V / 400 V / 415 V		
AC Voltage Range			360~440V		
AC Frequency Range			50 / 60Hz ±5Hz		
Wiring			L1/L2/L3-N-G		
Max. Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
Max. Input Current	19A	25.5A	31.9A	38.2A	47.6A
Power Factor (cosΦ)			0.8 leading – 0.8 lagging		
THDI			<3%		
Output (Back up)					
Rated Output Apparent Power	6600VA	AV0088	11000VA	13200VA	165000VA
Rated Output Active Power	6000W	8000W	10000W	12000W	150000W
Rated Output Voltage			380 V / 400 V / 415 V		
Rated Output Frequency			50/60Hz		
Max. Output Current	9.5A	12.7A	15.9A	19.1A	23.8A
THDV (@Linear Load)			<2%		
Switch Time			<20ms		
PV String Input					
Recommended max. PV Input Power	9000W	12000W	15000W	18000W	22500W
Rated DC Voltage			700V		
Operating Voltage Range			125V~1000V		
Startup Voltage			125V		
MPPT Voltage Range			180V-850V		
Number of MPPTs			2		
Max. Number of PV Strings per MPPT		1			2
Max. Input Current per MPPT		16	6A		20A
Max. Short-Circuit Current per MPPT		25	5A		30A

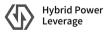
Hybrid Inverter Model	RESS-3P-6K-H00	RESS-3P-8K-H00	RESS-3P-10K-H00	RESS-3P-12K-H00	RESS-3P-15K-H0
Battery					
Battery Type			LFP (LiFePO4)		
Rated Battery Voltage			204.8V/307.2V/409.6V/512V	1	
Battery Voltage Range			125-600V		
Max. Charging Current			50A		
Max. Discharging Current			50A		
Efficiency					
Max. PV Efficiency	97.9	9%	98.	2%	98.5%
Euro. PV Efficiency	97.2	2%	97.	5%	97.6%
Protection					
PV Over Voltage Protection			Yes		
String Fault Detection			Yes		
Residual Current Detection			Yes		
nsulation Detection			Yes		
Anti-islanding Protection			Yes		
OC Switch (Battery)			Yes		
OC Reverse Polarity Protection			Yes		
AC/DC Surge Protection			DC Type II/AC Type III		
AC Over Voltage Protection			Yes		
AC Over Current Protection			Yes		
AC Short Circuit Protection			Yes		
eakage Current Detection			Yes		
Ground Connection Detection		Yes			
Battery Charging from Grid			Yes		
Remote On/Off			Yes		
DTA			Yes		
General					
Dimensions W*H*D			530*560*220mm		
Net Weight	30kg	3:	Lkg	33kg	34kg
nstallation	0		Wall-mounted	Ü	0
Operating Temperature Range		-25°	C~+60°C, (derating above 4	.0°C)	
Storage Temperature Range			'-25°C~70°C	,	
Max. Operating Altitude			2000m (no derating)		
Relative Humidity Range			0~95% (No Condensation)		
ngress Protection Rating	0~95% (NO CONDENSATION)  IP65				
Cooling	Natural convection				
	Natural convection  <35dB				
Noise Communication		D	5330B 6485/CAN2.0/(WIFI/4G optic	nn)	
		T.	LCD/APP	211/	
Display			5years (expand to 10 years)		
Varranty			Sycars (expand to 10 years,		
Certification			1,IEC/EN 61000-6-1/2/3/4:2		

EN 61000-3-3:2013/A2:2021, IEC/EN 61000-3-11:2019, EN 61000-3-12:2011, EN 50549-1:2019/AC:2019, EN50549-1:2019/Rfg:2016/NC Rfg:2018/PTPiREE:2021, VDE-AR-N 4105:2018/DIN VDE V 0124-100(VDE V 0124-100):2020, NRS 097-2-1:2017 Edition 2.1, G98/G99/1-6:2022, UNE217001:2020 / UNE217002:2020/ NTS V2.1:2021-07, IEC61727:2004/IEC62116:2014/IEC61683:1999, EN50549-1:2019/RFG:2016

Compatible Battery System

Compatible Battery System RESS-BS-7.6-H1; RESS-BS-11.4-H1; RESS-BS-15.2-H1; RESS-BS-19-H1





Supports PV, grid and battery power for home use. Power priority management to maximumly reduce electricity bills and backup critical loads.



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Self-designed Battery Energy
Storage Systems

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Multi-communication \_\_\_\_\_ Capabilities

Supports RS485, CAN2.0, WIFI, and 4G communication.



Concise Human-machine Interface

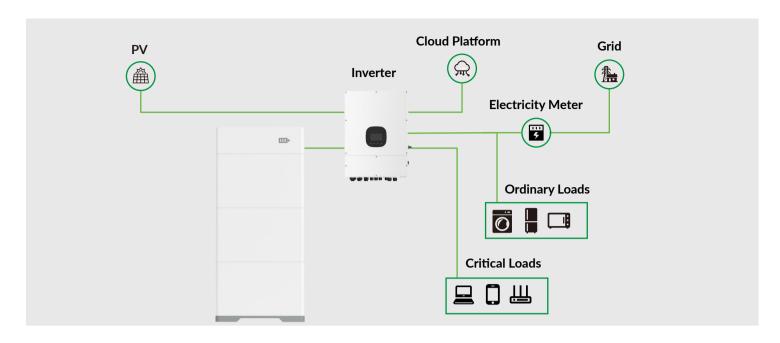


Easily operated local LCD display and app. Quick status indicators.



Safe Design

Multiple protection and detection function provide a full safety guarantee.



RESS-3P-6K-1 00-1 V

RESS\_3P\_10K\_L00\_LV

## **TECHNICAL DATA**

Hybrid Inverter Model

Hybrid Inverter Model	RESS-3P-6K-L00-LV	RESS-3P-10K-L00-LV
Output (On Grid)		
Rated Output Active Power	6000W	10000W
Max. Output Apparent Power	6000VA	10000VA
Rated AC Voltage	120 VAC (P-N), 208 \	/AC (P-P), 240 VAC (P-P)
AC Voltage Range	105.5 VAC -	- 132 VAC (P-N)
AC Frequency Range	50 / 60	0Hz±5Hz
Wiring	L1/	L2-N-G
Max. Output Current	25A	41.5A
Max. Input Current		40A
Power Factor (cosΦ)	0.9 leading	g – 0.9 lagging
THDI		<3%
Output (Back Up)		
Rated Output Apparent Power	6000VA	10000VA
Rated Output Active Power	6000W	10000W
Rated Output Voltage	120 VAC (P-N), 208 \	/AC (P-P), 240 VAC (P-P)
Rated Output Frequency	50	/60Hz
Max. Output Current	25A	41.5A
THDV(@Linear Load)		<3%
Switch Time	<	15ms
PV String Input		
Recommended Max. PV Input Power	7500W	12000W
Rated DC Voltage	3	360V
Operating Voltage Range	120	)V-550V
Startup Voltage		125V
MPPT Voltage Range	120	)V-550V
Number Of MPPTs		2
Max. Number Of PV Strings per MPPT		2
Max. input Current per MPPT	15A	18A

Battery Type         LFF LLFe PO-4)           Raced Battery Voltage Range         4847           Max. Charging Current         1204         2004           Max. Discharging Current         1204         2004           Max. Discharging Current         1504         2004           Efficiency           POPONE Voltage Protection           Vision Poly United Detection         Yes           Poly Volver Voltage Protection         Yes           Sing Fault Detection         Yes           Regidual Current Detection         Yes           South Anti-Islanding Protection         Yes           Poly Voltage Protection         Yes           DC Severse Polarity Protection         Yes           DC Severse Polarity Protection         Yes           AC Over Current Protection         Yes           AC Sever Current Protection         Yes           AC Sever Current Protection         Yes           AC Sever Current Protection <t< th=""><th>Hybrid Inverter Model</th><th>RESS-3P-6K-L00-LV</th><th>RESS-3P-10K-L00-LV</th></t<>	Hybrid Inverter Model	RESS-3P-6K-L00-LV	RESS-3P-10K-L00-LV	
Rate of Battery Voltage Range         401.27           Battery Voltage Range         401.27           Max. Discharging Current         120A         200A           Max. Discharging Current         150A         303A           Efficiency         55.5%           Emission Control of Max. PV Efficiency         55.5%           Emission Control of Max. PV Efficiency           Protection           Protection           Protection           String Fault Detection           Installation Detection           Protection           Colspan="2">Surface Table String Froection           Do Reverse Polarity Protection           OC Severse Polarity Protection           AC Own Voltage Protection           AC Own Current Protection           AC Own Voltage Protection	Battery			
### ### ### ### ### ### ### ### ### ##	Battery Type	LFP (Li	FePO4)	
Max. Otherging Current  1204 1504 3504  Max. Discharging Current  1504 5505  Max. PV Efficiency  Max. PV Efficiency  1505 5505  Max. String Fault Detection  1505 5505  Max. String Fault Detecti	Rated Battery Voltage	4	8V	
Max. P. Max.	Battery Voltage Range	40-	-62V	
Efficiency         96.5%           Buro. PV Efficiency         96.5%           Euro. PV Efficiency         96.5%           PV Over Voltage Protection         Yes           String Fault Detection         Yes           Residual Current Detection         Yes           Insulation Detection         Yes           DC Switch (Battery)         Yes           DC Switch (Battery)         Yes           DC Switch (Battery)         Yes           DC Switch (Battery)         Yes           AC Ose Or Current Protection         DC Type IbAC Type Ib           AC Over Voltage Protection         Yes           AC Over Voltage Protection         Yes           AC Over Current Protection         Yes           AC Short Clicuit Protection         Yes           Leakage Current Detection         Yes           Soft Grand Connection Detection         Yes           Battery Charging from Grid         Yes           Control         Yes           Battery Charging from Grid         Yes           Control         Yes           Battery Charging from Grid         Yes           Control         Yes           Control         Yes           Control         Yes	Max. Charging Current	120A	200A	
Max. PV Efficiency	Max. Discharging Current	150A	300A	
Euro. PV Efficiency         95.5%           Protection         Yes           String Fault Detection         Yes           Residual Current Detection         Yes           Insulation Detection         Yes           Anti-Handring Protection         Yes           DC Switch (Sattery)         Yes           DC Switch (Sattery)         Yes           DC Reverse Polarity Protection         DC Type Rick Ctype III           AC Over Vortage Protection         Yes           AC Over Current Protection         Yes           AC Over Current Protection         Yes           AC Short Circuit Protection         Yes           Convoid         Yes           Function         Yes           Battery Charging from Grid         Yes           Source         Wall-mounted           Operating Temperature Range         \$15° (00° 210.5 mm         \$15° (16° 210.5 mm           Net Weight         41kg         45kg           Max. Operating Altitude         1000m (no derating, over 1000m the power derating is 1% every 100m)           Relative Humidity Range <t< th=""><th>Efficiency</th><th></th><th></th></t<>	Efficiency			
Protection         Yes           EV Over Voltage Protection         Yes           String Fault Detection         Yes           Residual Current Detection         Yes           Insulation Detection         Yes           Anti-Islanding Protection         Yes           DC Switch (Battery)         Yes           DC Reverse Polarity Protection         DC Type IRAC Type III           Both PV and battery)         Protection           AC Over Current Protection         Yes           AC Over Current Protection         Yes           AC Short Circuit Protection         Yes           Battery Charging from Grid         Yes           Ground Connection Detection         Yes           Battery Charging from Grid         Yes           General         Dimensions W*H*D         \$15*715*215.5mm         \$15*715*215.5mm           Net Weight         41kg         45kg           Installation         Wall-mounted         40           Operating Temperature Range         -295*C+160*C, (desting above 45*C.)           Storage Temperature Range         -15*C+60*C <th>Max. PV Efficiency</th> <th>96</th> <th>.5%</th>	Max. PV Efficiency	96	.5%	
PV Over Voltage Protection         Yes           String Fault Detection         Yes           Residual Current Detection         Yes           Insulation Detection         Yes           Math-Islanding Protection         Yes           DC Switch (Battery)         Yes           DC Reverse Polarity Protection         Yes           BCRYDE Surge Protection         DC Type IIsAC Type III           AC Over Voltage Protection         Yes           AC Over Current Protection         Yes           AC Over Current Protection         Yes           AC Short Circuit Protection         Yes           AC Short Circuit Protection         Yes           Ground Connection Detection         Yes           Function         Yes           Battery Charging from Grid         Yes           General         Yes           Dimensions W*H*D         \$155*700*215.5mm         \$155*715*215.5mm           Net Weight         419.8         45kg           Max. Operating Temperature Range         -29*C*+69*C*, Generating above 45*C*)           Storage Temperature Range         -15*C*-60*C           Max. Operating Altitude         1000m (no derating, over 1000m* the power derating is 1.96 every 100m*)           Relative Humidity, Range         0-95% (N	Euro. PV Efficiency	95	.5%	
String Fault Detection Residual Current Protection Residual Current Detection Residual Residu	Protection			
Residual Current Detection Insulation Detection Pres Anti-Islanding Protection Covinctin (Battery) Covinct	PV Over Voltage Protection	Y	es	
Insulation Detection Anti-Islanding Protection DC Switch (Battery) CREWISE POLICY Protection (Both PV and battery) AC/DC Surge Protection AC Over Voltage Protection AC Over Current Protection AC Over Current Protection AC Short Circuit Protection AC Short Ci	String Fault Detection	Υ	es	
Anti-Islanding Protection  DC Switch (Battery)  DC Reverse Polarity Protection (Both PV and battery)  AC Over Voltage Protection  AC Over Voltage Protection  AC Over Voltage Protection  AC Over Current Detection  AC Over Current Protection Detection  AC Over Current Protection  AC Over	Residual Current Detection	Υ	es	
DC Switch (Battery)         Yes           DC Reverse Polarity Protection (Both PV and battery)         Yes           AC /DC Surge Protection         DC Type IIAC Type III           AC Over Voltage Protection         Yes           AC Over Voltage Protection         Yes           AC Over Current Protection         Yes           AC Short Circuit Protection         Yes           Leakage Current Detection         Yes           Ground Connection Detection         Yes           Function         Yes           Battery Charging from Grid         Yes           General         Yes           Dimensions W**D         \$15*00*215.5mm         \$15*715*215.5mm           Net Weight         41kg         45kg           Installation         Wail-mounted           Operating Temperature Range         425*C*+60*C** (derating above 45*C**)           Storage Temperature Range         45*C*-60*C**           Max. Operating Altitude         1000m (no derating, over 1000m the power derating is 1 % every 100m)           Relative Humidity Range         0-99% (No Condensation)           Ingress Protection Rating         Force air cooling           Voise         50dB           Communication         R S485, RS232, USB, Dry contact, WIFI           Displa	Insulation Detection	Y	es	
Decembers Polarity Protection (Both Pv and battery)  AC/DC Surge Protection  AC Over Oltage Protection  AC Short Circuit Protection  Yes  AC Short Circuit Protection  Yes  Consult Connection Detection  Function  Battery Charging from Grid  Yes  Control  Battery Charging from Grid  Yes  Control  Battery Charging from Grid  Yes  S15'715'215.5mm  S15'715'215.5mm  S15'715'215.5mm  S15'715'215.5mm  Net Weight  41kg 41kg 43kg 43kg  Installation  Wall-mounted  Operating Temperature Range  -25'C-+60'C, (deretting above 45'C)  Storage Temperature Range  -15'C-60'C  Max. Operating Altitude  1000m (no derating, over 1000m the power derating is 1 % every 100m)  Relative Humidity Range  10-95% (No Condensation)  Ingress Protection Rating  Looling  Force air cooling  Noise  -50dB  Cooling  Force air cooling  -50dB  Communication  RS 485, RS 232, USB, Dry contact, WIFI  Display  LCD/APP  Warranty  2 years  Certification  Certification  Certification  UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4	Anti-Islanding Protection	Y	es	
React Power and battery)   AC/OC Surge Protection	DC Switch (Battery)	Υ	es	
AC Over Voltage Protection AC Over Current Protection AC Short Circuit Protection AC S	DC Reverse Polarity Protection (Both PV and battery)	Υ	es	
AC Over Current Protection AC Short Circuit Protection Leakage Current Detection Function Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Wall-mounted  Operating Temperature Range Function Functi	AC/DC Surge Protection	DC Type II	;AC Type III	
AC Short Circuit Protection Leakage Current Detection Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Battery Charging from Grid Function  Sis*700*215.5mm Function  Sis*700*215.5mm Function  Net Weight Function	AC Over Voltage Protection	Υ	es	
Leakage Current Detection Ground Connection Detection Function Battery Charging from Grid General  Dimensions W*H*D Net Weight Installation Net Weight Installation Operating Temperature Range Storage Temperature Range Awa. Operating Altitude Neative Humidity Range Ocerating Noise Assert Storage Cooling Noise Assert Cooling Assert Cooling Assert Asser	AC Over Current Protection	Υ	es	
Function  Battery Charging from Grid Yes  General  Dimensions W'H'D 515*700*215.5mm 515*715*215.5mm Net Weight 41kg 45kg Installation Wall-mounted  Operating Temperature Range -25*C~+60*C, (derating above 45*C)  Storage Temperature Range -15*C~60*C  Max. Operating Altitude 1000m (no derating, over 1000m the power derating is 1% every 100m) Relative Humidity Range 0-95% (No Condensation) Ingress Protection Rating 1P65  Cooling Force air cooling Noise <50dB  Communication R5485, R5232, USB, Dry contact, WIFI Display LCD/APP  Warranty 2 years  Certification  Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Communication Battery System	AC Short Circuit Protection	Υ	es	
Battery Charging from Grid  Yes  General  Dimensions W*H*D  S15*700*215.5mm  S15*715*215.5mm  Net Weight  41kg  45kg  Installation  Wall-mounted  Operating Temperature Range  -25*C~+60*C, (derating above 45*C)  Storage Temperature Range  **15*C~60*C  Max. Operating Altitude  1000m (no derating, over 1000m the power derating is 1 % every 100m)  Relative Humidity Range  0-95% (No Condensation)  Ingress Protection Rating  Force air cooling  Noise  <\$50dB\$  Communication  R\$485, R\$232, U\$B, Dry contact, WIFI  Display  Warranty  2 years  Certification  Certification  UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Leakage Current Detection	Υ	es	
Battery Charging from Grid  General  Dimensions W*H*D  S15*700*215.5mm  S15*715*215.5mm  S1	Ground Connection Detection	Υ	es	
Dimensions W*H*D  S15*700*215.5mm  S15*715*215.5mm  Net Weight  41kg  45kg  Installation  Wall-mounted  Operating Temperature Range  -25*C~+60*C, (derating above 45*C)  Storage Temperature Range  -15*C~60*C  Max. Operating Altitude  1000m (no derating, over 1000m the power derating is 1 % every 100m)  Relative Humidity Range  0~95% (No Condensation)  Ingress Protection Rating  IP65  Cooling  Force air cooling  Noise  -50dB  Communication  RS 485, RS232, USB, Dry contact, WIFI  Display  LCD/APP  Warranty  2 years  Certification  Certification  UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Function			
Dimensions W"H"D  Net Weight  Alkg	Battery Charging from Grid	Y	es	
Net Weight 41kg 45kg Installation Wall-mounted Operating Temperature Range -25°C~+60°C, (derating above 45°C) Storage Temperature Range -15°C~60°C Max. Operating Altitude 1000m (no derating, over 1000m the power derating is 1 % every 100m) Relative Humidity Range 0~95% (No Condensation) Ingress Protection Rating IP65 Cooling Force air cooling Noise <50dB Communication RS 485, RS232, USB, Dry contact, WIFI Display LCD/APP Warranty 2 years Certification Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4 Compatible Battery System	General			
Installation Wall-mounted  Operating Temperature Range -25°C~+60°C, (derating above 45°C)  Storage Temperature Range -15°C~60°C  Max. Operating Altitude 1000m (no derating, over 1000m the power derating is 1 % every 100m)  Relative Humidity Range 0~95% (No Condensation)  Ingress Protection Rating IP65  Cooling Force air cooling  Noise <50dB  Communication RS 485, RS232, USB, Dry contact, WIFI  Display LCD/APP  Warranty 2 years  Certification  Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Dimensions W*H*D	515*700*215.5mm	515*715*215.5mm	
Operating Temperature Range -25°C~+60°C, (derating above 45°C)  Storage Temperature Range -15°C~60°C  Max. Operating Altitude 1000m (no derating, over 1000m the power derating is 1 % every 100m)  Relative Humidity Range 0~95% (No Condensation)  Ingress Protection Rating IP65  Cooling Force air cooling  Noise -50dB  Communication RS 485, RS232, USB, Dry contact, WIFI Display LCD/APP  Warranty 2 years  Certification  Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Net Weight	41kg	45kg	
Storage Temperature Range  Max. Operating Altitude  1000m (no derating, over 1000m the power derating is 1 % every 100m)  Relative Humidity Range  0~95% (No Condensation)  Ingress Protection Rating  IP65  Cooling  Force air cooling  Noise  <50dB  Communication  RS 485, RS232, USB, Dry contact, WIFI  Display  LCD/APP  Warranty  2 years  Certification  UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Installation	Wall-m	nounted	
Max. Operating Altitude  1000m (no derating, over 1000m the power derating is 1 % every 100m)  Relative Humidity Range 0~95% (No Condensation)  Ingress Protection Rating IP65  Cooling Force air cooling  Noise <50dB  Communication RS 485, RS232, USB, Dry contact, WIFI  Display LCD/APP  Warranty 2 years  Certification  Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Operating Temperature Range	-25°C~+60°C, (der	rating above 45°C)	
Relative Humidity Range Ingress Protection Rating IP65 Cooling Force air cooling Noise SodB Communication RS 485, RS232, USB, Dry contact, WIFI Display LCD/APP Warranty 2 years Certification Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4 Compatible Battery System	Storage Temperature Range	-15°C~	-60°C	
Ingress Protection Rating Cooling Force air cooling Noise <50dB Communication RS 485, RS232, USB, Dry contact, WIFI Display LCD/APP Warranty 2 years Certification Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4 Compatible Battery System	Max. Operating Altitude	1000m (no derating, over 1000m th	ne power derating is 1 % every 100m)	
CoolingForce air coolingNoise<50dB	Relative Humidity Range	0~95% (No C	ondensation)	
Noise < SOdB  Communication RS 485, RS232, USB, Dry contact, WIFI  Display LCD/APP  Warranty 2 years  Certification  Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Ingress Protection Rating	IF	65	
Communication RS 485, RS232, USB, Dry contact, WIFI  Display LCD/APP  Warranty 2 years  Certification  Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Cooling	Force ai	rcooling	
Display LCD/APP  Warranty 2 years  Certification  Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Noise	<51		
Warranty 2 years  Certification  Certification  UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Communication	RS 485,RS232, US	RS 485,RS232, USB, Dry contact, WIFI	
Certification  Certification  UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Display	LCD		
Certification UL1741, IEEE1547, EN 61000-6-2, EN 61000-6-4  Compatible Battery System	Warranty			
Compatible Battery System	Certification			
	Certification	UL1741, IEEE1547, EN 6	51000-6-2,EN 61000-6-4	
	Compatible Battery System			
		RESS-BS-6.6-L0; RESS-BS	-13.2-L0; RESS-BS-19.8-L0	





Hybrid Power Leverage

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\_

DC coupled system. Shortens power conversion flow to get low power loss.



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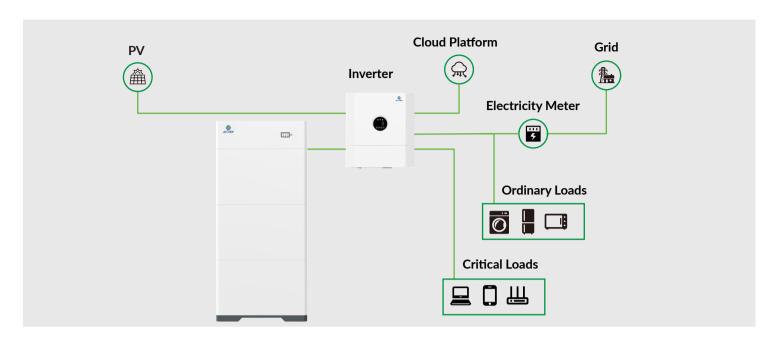


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Safe Design

Multiple protection and detection function provide a full safety guarantee.



Hybrid Inverter Model	RESS-1P-3.6K-L00	RESS-1P-5K-L00	RESS-1P-6K-L00	RESS-3P-8K-L00	RESS-3P-10K-L00
Output (On Grid)					
Rated Output Active Power	3680W	5000W <sup>1</sup>	6000W	8000W	10000W
Max. Output Apparent Power	7360VA	7360VA	7360VA	8800VA	11000VA
Rated AC Voltage		230V		40	00V
AC Voltage Range		150~280V		320~	480V
AC Frequency Range			50/60Hz±5Hz		
Wiring		L-N-G		L1/L2/	L3-N-G
Max. Output Current	16A	22A <sup>2</sup>	25A	12.8A	16A
Max. Input Current		32A		2.	5A
Power Factor (cosΦ)			0.8 leading – 0.8 lagging		
THDI			<3%		
Output (Back up)					
Rated Output Apparent Power	4000VA	5000VA	5000VA	8000VA	10000VA
Rated Output Active Power	3680W	4600W	4600W	7360W	9200W
Rated Output Voltage		230V		400	)V
Rated Output Frequency			50/60Hz		
Max. Output Current	16A	20A	20A	11.6A	14.5A
THDV (@Linear Load)		<3%		<2	2%
Switch Time			<20ms		
PV String Input					
Recommended Max. PV Input Power	4800W	6500W	7500W	16000W	20000W
Rated DC Voltage		400V		72	10V
Max. Voltage Range		80V~580V		140V~	1100V
Startup Voltage		150V		20	00V
MPPT Voltage Range		80V-560V		140V~	1000V
Number of MPPTs			2		
Max. Number of PV Strings per MPPT			1		
Max. Input Current per MPPT			15A		
Max. Short-Circuit Current per MPPT		18A		2	AC

<sup>\*1.</sup> Australia 4999W,Germany and South Africa 4600W. \*2. Australia 21.7A,Germany and South Africa 20A.

		LFP (LiFePO4)		
	48V		51	1.2V
	40-60V		44	-58V
50A	100A	100A	16	60A
80A	100A	100A	20	00A
		97.6%		
		97.0%		
		Yes		
		DC Type II / AC Type III		
		Yes		
		Yes		
		Yes		
Yes				
		Yes		
		Yes		
		Yes		
		Yes		
	540*590*240mm		540*980	)*240mm
	32kg		49	9kg
		Wall-mounted		
	-25°C	C~+60°C, (derating above	40°C)	
		-40°C~70°C		
0~95% (No Condensation)				
IP65				
Natural convection				
	<35dB		<5	5dB
	RS4	485/CAN2.0/WIFI/(4G opti	on)	
		LCD/APP		
	5	years (expand to 10 year	s)	
CE JEC/EN COLOR	JEC/ENC1000 0 1 /0 /0 /	JEC/ENC1000 0 11/12	CE; IEC/EN 62109-1&2:	IEC/EN61000-6-1/
	CE; IEC/EN 62109-1&2;	40-60V 50A 100A 80A 100A  540*590*240mm 32kg  -25°C  CE; IEC/EN 62109-1&2; IEC/EN61000-6-1/2/3/4	48V 40-60V 50A 100A 100A 80A 100A 100A 97.6% 97.0%  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye	48V 45 40-60V 444 50A 100A 100A 100A 26 80A 100A 100A 100A 26 97.6% 97.0%  Yes Yes Yes Yes Yes Yes Yes Yes Yes Ye

Certification

CE; IEC/EN 62109-1&2; IEC/EN61000-6-1/2/3/4; IEC/EN61000-3-11/12; IEC60529; IEC 60068; IEC61683; IEC62116; IEC61727; EN50549-1; VDE-AR-N-4105; C10/C11; G98, G99; CEI0-21; UNE 217001, UNE 217002 NTS V2.1; VDE 0126; EN50549+NC; RfG+PTPIREE; AS 4777.2; NRS 097

CE; IEC/EN 62109-1&2; IEC/EN61000-6-1/2/3/4; IEC/EN61000-3-11/12; IEC60529; IEC 60068; IEC66183; IEC62116; IEC61727; EN50549-1; VDE-AR-N-4105; G98; CEI0-21; VDE 0126; EN50549+RfG+EIFS; EN50549+NC RfG+PTPIREE;

Compatible Battery System

Compatible Battery System RESS-BS-6.6-L0; RESS-BS-13.2-L0; RESS-BS-19.8-L0







Modular design: one storage system can support 2 to 5 battery units. Systems can be connected in parallel to expand capacity to a maximum of 57kWh.



#### High Safety

System design based on LFP batteries, which have greater thermal stability.



#### Quick Installation

Quick insert design to save installation time and cost.



Long Service Life

More than 6000 cycles at 100% charging and discharging.



IP65 Rating

=

IP65 water- and dust-proof, supports both indoor and outdoor installation.



High Usage

=

The battery has high usage with usable energy up to 100%.

Model Number	RESS-BS-7.6-H1	RESS-BS-11.4-H1	RESS-BS-15.2-H1	RESS-BS-19-H1		
System						
Battery System Capacity (kWh)	7.6	11.4	15.2	19		
Usable Capacity (kWh)	7.6	11.4	15.2	19		
Numbers of Battery Modules	2	3	4	5		
Rated Battery Voltage (V)	204.8	307.2	409.6	512		
Operating Battery Voltage Range (V)	160~230	240~345	320~460	400~576		
Rated Power (kW)	5	7.5	10	12.5		
Rated Discharging Current (A)	25.9	25.9	25.9	25.9		
Max Discharging Current (A)	37	37	37	37		
Rated Charging Current (A)	18.5	18.5	18.5	18.5		
Max Charging Current (A)	25.9	25.9	25.9	25.9		
Peak Discharging/Charging Current (A)	148/55.5@5S	148/55.5@5S	148/55.5@5S	148/55.5@5S		
System Dimensions (W*H*D) (mm)	625*830*250	625*1145*250	625*1460*250	625*1775*250		
System Net Weight (kg)	113	161	209	257		
Communication		RJ45 (RS485, C	AN, Dry contact)			
Module						
Battery Module Number		RESS-BM-	·10237-H1			
Battery Module Capacity (kWh)		3	.8			
Rated Battery Module Voltage (V)	102.4					
Battery Module Dimensions (W*H*D) (mm)	625*315*250					
Battery Module Net Weight (kg)	48					
Battery Control Box		RESS-BC-	51237-H1			
Rated Voltage (V)	512					
Control Box Dimensions (W*H*D) (mm)		625*1	50*250			
Control Box Net Weight (kg)		1	2			
Environment						
Operating Temperature		(-10°C	~50°C)			
Operating Humidity		0~95	%RH			
Operating Altitude	<=3000m					
Installation	Wall-mounted or Floor type					
Enclosure Protection Rating	IP65					
Warranty	10years					
Cycle File	>=6000 cycles @ 75% EOL,25°C,100% DoD					
C I.C. I.						
Certification						

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Model Number	RESS-BS-6.6-L0	RESS-BS-13.2-L0	RESS-BS-19.8-L0		
System					
Battery System Capacity (kWh)	6.6	13.2	19.8		
Usable Capacity (kWh)	6.6	13.2	19.8		
Numbers of Battery Modules	1	2	3		
Rated Battery Voltage (V)	51.2	51.2	51.2		
Operating Battery Voltage Range (V)	40~57.6	40~57.6	40~57.6		
Rated Power (kW)	5	8	10		
Rated Discharging Current (A)	91	182	273		
Max Discharging Current (A)	125	200	300		
Rated Charging Current (A)	65	130	195		
Max Charging Current (A)	100	200	300		
System Dimensions (W*H*D) (mm)	725*620*170	725*1060*170	725*1500*170		
System Net Weight (kg)	65	125	185		
Communication		RJ45 (RS485, CAN, Dry contact)			
Module					
Battery Module Number	RESS-BM-051130-L0				
Battery Module Capacity (kWh)	6.6				
Rated Battery Module Voltage (V)	51.2				
Battery Module Dimensions (W*H*D) (mm)	725*440*170				
Battery Module Net Weight (kg)	60				
Battery Power Distribution Box	RESS-PD-051130-L0				
Rated Voltage (V)		51.2			
Control Box Dimensions (W*H*D) (mm)		725*130*170			
Control Box Net Weight (kg)		12			
Environment					
Operating Temperature		(-10°C~50°C)			
Operating Humidity		0~95%RH			
Operating Altitude		<=3000m			
nstallation		Wall-mounted or Floor type			
Enclosure Protection Rating		IP65			
Narranty		10years			
Cycle File	>=6	>=6000 cycles @ 75% EOL,25°C,100% DoD			
Certification					
Certification	IEC62619/UL1973/UL9540A/UN38.3				

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Modular design: one storage system can support 2 to 5 battery units. Systems can be connected in parallel to expand capacity to a maximum of 57kWh. System design based on LFP batteries, which have greater thermal stability.

Quick insert design to save installation time and cost.

 $\times$ 

Long Service Life

More than 6000 cycles at 100% charging and discharging.



IP65 Rating

IP65 water- and dust-proof, supports both indoor and outdoor installation.



**High Usage** 

energy up to 100%.

—
The battery has high usage with usable

Model Number	RESS-BS-7.6-H0	RESS-BS-11.4-H0	RESS-BS-15.2-H0	RESS-BS-19-H0	
System					
Battery System Capacity (kWh)	7.6	11.4	15.2	19	
Usable Capacity (kWh)	7.6	11.4	15.2	19	
Numbers of Battery Modules	2	3	4	5	
Rated Battery Voltage (V)	204.8	307.2	409.6	512	
Operating Battery Voltage Range (V)	160~230	240~345	320~460	400~576	
Rated Power (kW)	5	7.5	10	12.5	
Rated Discharging Current (A)	25.9	25.9	25.9	25.9	
Max Discharging Current (A)	37	37	37	37	
Rated Charging Current (A)	18.5	18.5	18.5	18.5	
Max Charging Current (A)	25.9	25.9	25.9	25.9	
Peak Discharging/Charging Current (A)	148/55.5@5S	148/55.5@5S	148/55.5@5S	148/55.5@5S	
System Dimensions (W*H*D) (mm)	670*900*170	670*1215*170	670*1530*170	670*1845*170	
System Net Weight (kg)	105	149	193	237	
Communication		RJ45 (RS485, C	AN, Dry contact)		
Module					
Battery Module Number		RESS-BM-	-10237-H0		
Battery Module Capacity (kWh)	3.8				
Rated Battery Module Voltage (V)	102.4				
Battery Module Dimensions (W*H*D) (mm)	670*315*170				
Battery Module Net Weight (kg)	44				
Battery Control Box	RESS-BC-51237-H0				
Rated Voltage(V)	512				
Control Box Dimensions (W*H*D) (mm)		670*22	20*170		
Control Box Net Weight (kg)		1	2		
Environment					
Operating Temperature		(-10°C	~50°C)		
Operating Humidity		0~95	%RH		
Operating Altitude	<=3000m				
Installation	Wall-mounted or Floor type				
Enclosure Protection Rating		IP	65		
Warranty	10years				
Cycle File	>=6000 cycles @ 75% EOL,25°C,100% DoD				
Certification					
Certification		IEC62619	9/UN38.3		



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# **RESS PE20**







Hybrid Power Leverage 👤

Supports PV, grid and battery power for home use. Power priority management to maximumly reduce electricity bills and backup critical loads.



**High-level Integration** 

DC coupled system. Shortens power conversion flow to get low power loss.



All In One Design

Improve installation convenience, enhancing aesthetics.



Battery Modular Design



Quick Installation



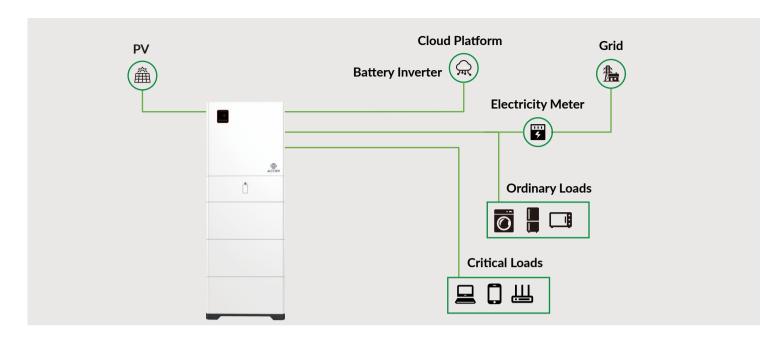
Quick insert design to save installation time and cost.

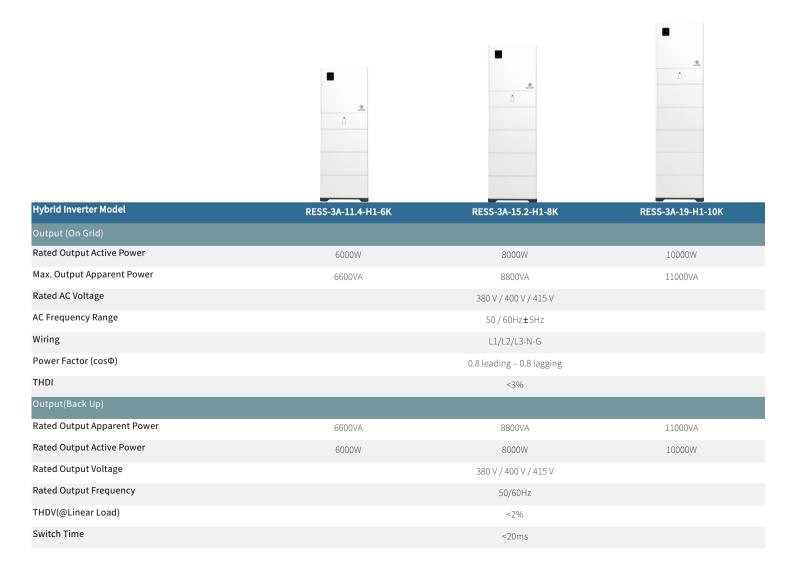


**IP65 Rating** 



IP65 water- and dust-proof, supports both indoor and outdoor installation.





Hybrid Inverter Model	RESS-3A-11.4-H1-6K	RESS-3A-15.2-H1-8K	RESS-3A-19-H1-10K		
PV String Input					
Recommended Max. PV input Power	9000W	12000W	15000W		
Rated DC Voltage		700V			
Operating Voltage Range		125V~1000V			
startup Voltage		125V			
MPPT Voltage Range		180V-850V			
lumber of MPPTs		2			
Max. Number of PV Strings per MPPT		1			
lax. Input Current per MPPT		16A			
Max. Short-Circuit Current per MPPT		25A			
·		25.1			
Battery Battery Type		LFP (LiFePO4)			
Battery System Capacity	11.4KWH	15.2KWH	19KWH		
Rated Battery Voltage	307.2V	409.6V	512V		
lumbers of Battery Modules	3	405.00	5		
ated Discharging Current	J	25.9A	J		
		25.9A 18.5A			
ated Charging Current		18.5A >=6000 cycles @ 75% EOL,25℃,100% DoD			
cycle Life		~-0000 cycles @ 75% EOL,25°C,100% D0D			
fficiency	07.00		00.20/		
Max. PV Efficiency	97.9%		98.2%		
uro. PV Efficiency	97.2%		97.5%		
rotection		<u> </u>			
V Over Voltage Protection		Yes			
tring Fault Detection		Yes			
esidual Current Detection		Yes			
nsulation Detection		Yes			
nti-islanding Protection		Yes			
OC Switch (Battery)		Yes			
C Reverse Polarity Protection	Yes				
C/DC Surge Protection	DC Type II;AC Type III				
C Over Voltage Protection	Yes				
AC Over Current Protection	Yes				
C Short Circuit Protection	Yes				
eakage Current Detection		Yes			
Ground Connection Detection		Yes			
unction					
Battery Charging From Grid		Yes			
Remote On/Off		Yes			
)TA		Yes			
eneral					
imensions W*H*D	625*1855*250mm	625*2170*250mm	625*2485*250mm		
et Weight	194kg	242kg	290kg		
nstallation		Wall-mounted or Floor type			
perating Temperature Range		-10°C~+50°C, (derating above 40°C)			
lax. Operating Altitude		2000m (no derating)			
elative Humidity Range		0~95% (No Condensation)			
ngress Protection Rating		IP65			
Cooling		Natural convection			
loise		<35dB			
Communication		RS485/CAN2.0/(WIFI/4G option)			
isplay		LCD/APP			
Varranty	PCS:	PCS: 5 years (expand to 10 years); BAT:10 years			
Certification					
		IEC62619/UN38.3 (Battery)			
Certification		IEC/EN 62109-1&-2(PCS)			





Hybrid Power Leverage \_

Supports PV, grid and battery power for home use. Power priority management to maximum reduce electricity bill and backup critical loads.



High Level Integration



DC coupled system. shortens power conversion flow to get low power loss.



All In One Design

Improve installation convenience, enhancing aesthetics.



Battery Modular Design



**Quick Installation** 



Quick insert design to save installation time and cost.

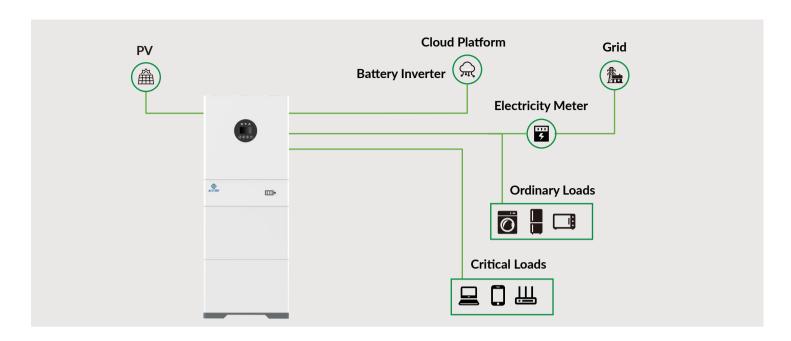


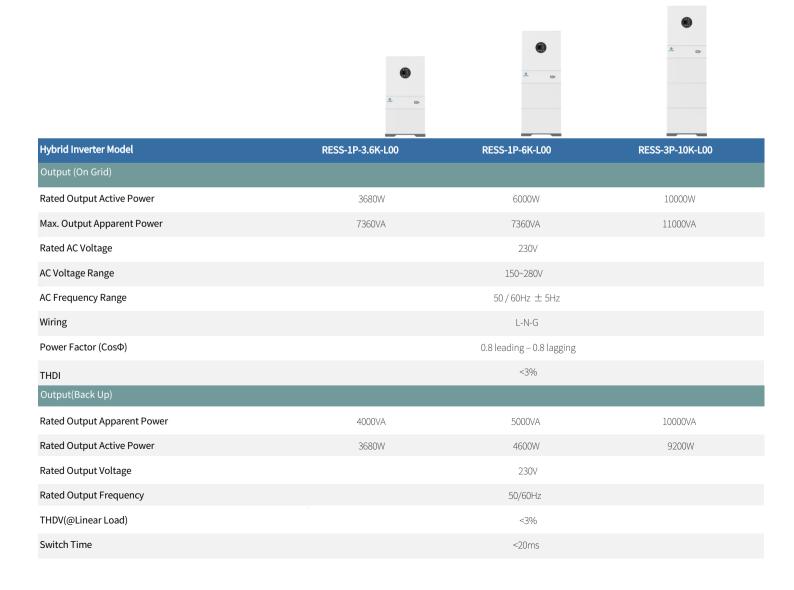
**IP65 Rating** 



IP65 water- and dust-proof, supports both indoor and outdoor installation.

Modular design: one storage system can support 1 to 3 battery units.





Hybrid Inverter Model	RESS-1P-3.6K-L00	RESS-1P-6K-L00	RESS-3P-10K-L00	
PV String Input				
Recommended Max. PV input Power	4800W	7500W	20000W	
Rated DC Voltage	100011	400V	2000011	
Max. Voltage Range		80V~580V		
Startup Voltage		150V		
MPPT Voltage Range		80V-560V		
Number of MPPTs				
		2		
Max. Number of PV strings per MPPT		1		
Max. Input Current per MPPT		15A		
Max. Short-Circuit Current per MPPT	184	4	20A	
Battery				
Battery Type		LFP (LiFePO4)		
Battery System Capacity	6.6KWH	13.2KWH	19.8KWH	
Rated Battery Voltage		51.2V		
Numbers of Battery Modules	1	2	3	
Rated Discharging Current	91A	182A	273A	
Rated Charging Current	65A	130A	195A	
Cycle Life	>:	=6000 cycles @ 75% EOL,25°C,100% DoD	)	
Efficiency				
Max. PV Efficiency		97.6%		
Euro. PV Efficiency		97.0%		
Protection				
PV Over Voltage Protection		Yes		
String Fault Detection		Yes		
Residual Current Detection		Yes		
Insulation Detection		Yes		
Anti-Islanding Protection				
DC Switch (Battery)	Yes			
	Yes			
DC Reverse Polarity Protection (Both PV and Battery)		Yes		
AC/DC Surge Protection		DC Type II;AC Type III		
AC Over Voltage Protection		Yes		
AC Over Current Protection		Yes		
AC Short Circuit Protection		Yes		
Leakage Current Detection		Yes		
Ground Connection Detection		Yes		
Function				
Battery Charging From Grid		Yes		
Remote On/Off		Yes		
OTA		Yes		
General		163		
Dimensions W*H*D	725*1179*250mm	725*1619*250mm	725*2449*250mm	
Net Weight	99kg	159kg	237kg	
Installation	221/6	-	2011/6	
		Wall-mounted or Floor type		
Operating Temperature Range		-10°C~+50°C, (derating above 40°C)		
Max. Operating Altitude		2000m (no derating)		
Relative Humidity Range		0~95% (No Condensation)		
Ingress Protection Rating		IP65		
Cooling		Natural convection		
Noise	<350		<55dB	
Communication		RS485/CAN2.0/WIFI/(4G option)		
Display		LCD/APP		
Warranty	PCS	: 5 years (expand to 10 years); BAT:10 yea	rs	
Certification				
Certification		IEC62619/UN38.3 (Battery)		
		IEC/EN 62109-1&-2(PCS)		







#### **High Energy Density**

The RESS battery module (51.2V/65Ah) is specifically designed for energy storage systems, delivering a total energy of 3.3 kWh per module. With its compact design, this module offers a high energy density of 196 Wh/L, making it easily integrable into various storage systems.



#### Long Service Life

This module uses high-performance LFP battery cells, ensuring safety and providing excellent lifetime performance. The cycle life exceeds 6000 cycles @ 100% DOD (75% EOL), offering a long-lasting solution for your energy storage needs.



#### Flexible Design

The module is designed with flexibility in mind to accommodate both high and low battery voltage systems. When connected in parallel, it can create a low-voltage battery platform, expanding energy capacity. Conversely, when connected in series, it can build a high-voltage battery platform, offering even more energy capacity.



#### **High Reliability**

This battery module meets UN38.3 and UL9540A certifications, ensuring the safe and reliable operation of your energy storage system.

Module	
Battery Block Number	RESS-BB-05165
Battery Block Capacity (kWh)	3.3
Rated Battery Module Voltage (V)	51.2
Rated Discharging Current (A)	32.5
Max Discharging Current (A)	65
Rated Charging Current (A)	32.5
Max Charging Current (A)	48.7
Battery Module Dimensions (W*H*D) (mm)	323*409*128
Battery Module Net Weight (kg)	29
Environment	
Operating Temperature	-10°C~50°C*
Operating Humidity	0~95%RH
Operating Altitude	<=3000m
Enclosure Protection Rating	IP20
Warranty	10years
Cycle File	>=6000 cycles @ 75% EOL,25°C,100% DoD
Certification	
Certification	UN38.3/UL9540A

 $<sup>^{\</sup>star}$  Charge derating will occur between -10 °C and +5 °C









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