

**RENAC**



# Renac Energy

Smart Energy for Life

2020 All-in-One Datasheet

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# R1 Baby Series ( SINGLE PHASE GRID ON )

NAC1K-SS/NAC1K5-SS/NAC2K-SS/NAC2K5-SS/NAC3K-SS

Model	NAC1K-SS	NAC1K5-SS	NAC2K-SS	NAC2K5-SS	NAC3K-SS
Rated AC power	1000 W	1500 W	2000 W	2500 W	3000 W
Maximum AC power	1100 VA	1650 VA	2200 VA	2750 VA	3200 VA
<b>Input</b>					
Maximum input power	1200 W	1800 W	2400 W	3000 W	3400 W
Maximum DC input voltage	500 V				
MPPT operating voltage range	90 ~ 500 V				
Startup voltage	150 V				
Min. DC Voltage	70 V				
Number of MPPT	1				
Maximum input current	11 A	11 A	11 A	11 A	11 A
Number of DC Connection Sets per MPPT	1				
DC terminal type	MC4				
<b>Output</b>					
Rated output current	4.4 A	6.6 A	8.7 A	10.9 A	13.0 A
Maximum output current	4.8 A	7.2 A	9.6 A	12 A	14 A
Rated power grid voltage	230V/160-290V ; L + N + PE				
Grid frequency/ range	50HZ/60HZ 45-55HZ/55-65HZ				
AC voltage Range	160 ~ 290 V (May vary as per corresponding country's grid standard)				
power factor	0.8leading ~0.8lagging ( full load)				
DC current injection	< 0.25%				
THDi	< 2%				
<b>Efficiency</b>					
Maximum efficiency	97.2%	97.2%	97.2%	97.2%	97.2%
European efficiency	96.4%	96.6%	96.6%	96.6%	96.6%
MPPT Accuracy	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Protect</b>					
DC Switch	Optional				
Insulation monitoring	Integrated				
DC reverse-polarity protection	Integrated				
AC over current protection	Integrated				
Anti-Islanding protection	Integrated				
Residual current detection	Integrated				
Thermal protection	Integrated				
<b>General Parameters</b>					
Dimensions(W×H×D)	283 x 343 x 119 mm				
Weight	6.5 kg	6.5 kg	7 kg	8 kg	8 kg
Installation method	Wall mounted installation				
Display	2 x 16 character LCD				
Communication	WiFi				
Ambient temperature range	-25 °C ~ 60 °C				
Relative humidity	0~100% (no condensation)				
Operating altitude	≤4000m				
Standby Self Consumption	0				
Topology	transformerless				
Heat dissipation	Natural air cooling				
Protection degree	IP65				
Noise emission	< 30 dB				
Warranty	Standard 5 years 10/15/20/25 years extension optional				
Certifications	IEC 62109-1, IEC 62109-2, EN 61000-2, EN 61000-3, AS/NZS 3100, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29, VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G83/2, UTE C15-712-1, MEA, PEA, AS4777, NB/T 32004-2013, IEC60068, IEC61683, IEC61727, IEC62116, EN50438				



# R1 Kiddy Series ( SINGLE PHASE GRID ON )

NAC4K-DS/NAC5K-DS/NAC6K-DS/NAC7K-DS/NAC8K-DS

Model	NAC4K-DS	NAC5K-DS	NAC6K-DS	NAC7K-DS	NAC8K-DS
Rated AC power	4000 W	5000 W	6000 W	7000 W	8000 W
Maximum AC power	4400 VA	5500 VA	6600 VA	7700 VA	8000 VA
<b>Input</b>					
Maximum input power	4700 W	5800 W	7000 W	8100 W	8600 W
Maximum DC input voltage	600 V				
MPPT operating voltage range	100 ~ 550 V				
Startup voltage	120 V				
Min. DC Voltage	70 V				
Number of MPPT	2				
Maximum input current	10 A / 10 A	10 A / 10 A	10 A / 10 A	20 A / 10 A	20 A / 10 A
Number of DC Connection Sets per MPPT	1 / 1			2 / 1	
DC terminal type	MC4				
<b>Output</b>					
Rated output current	17.4 A	21.8 A	26.1 A	30.5 A	34.8 A
Maximum output current	19.2 A	24 A	28.7 A	33.5 A	34.8 A
Rated power grid voltage	230 V ; L + N + PE				
Rated power grid frequency	50 Hz / 60 Hz				
AC voltage Range	160 ~ 290 V (May vary as per corresponding country's grid standard)				
Frequency range	45-55HZ / 55-60HZ				
power factor	>0.99 , -0.8~ 0.8 controllable				
DC current injection	< 0.25%				
THDi	< 2%				
<b>Efficiency</b>					
Maximum efficiency	97.8%	97.8%	97.8%	98.1%	98.1%
European efficiency	97.2%	97.2%	97.2%	97.5%	97.5%
MPPT efficiency	99.5%	99.5%	99.5%	99.5%	99.5%
<b>Protect</b>					
DC Switch	Optional				
Insulation monitoring	Integrated				
DC reverse-polarity protection	Integrated				
AC over current protection	Integrated				
Anti-Islanding protection	Integrated				
Residual current detection	Integrated				
Thermal protection	Integrated				
SPD	MOV UL: E327997/CSA: 246579/VDE: 40027827				
<b>General Parameters</b>					
Dimensions(W×H×D)	395 x 330 x 185 mm				
Weight	14 kg	15 kg	15 kg	16 kg	16 kg
Installation method	Wall mounted installation				
Display	LCD				
Communication	WiFi				
Ambient temperature range	-25 °C ~ 60 °C				
Relative humidity	0~98% (no condensation)				
Operating altitude	≤4000m				
Standby Self Consumption	<0.2W				
Topology	transformerless				
Heat dissipation	Natural	Natural	Natural	Fan	Fan
Protection degree	IP65				
Noise emission	< 30 dB				
Warranty	Standard 5 years 10/15/20/25 years extension optional				
Certifications	IEC 62109-1, IEC 62109-2, EN 61000-2, EN 61000-3, AS/NZS 3100, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29 VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G83/2, UTE C15-712-1, MEA, PEA, AS4777, NB/T 32004-2013, IEC60068, IEC61683, IEC61727, IEC62116, EN50438				



# R3 Micro Series (THREE PHASE GRID ON)

R3-4K-DT/R3-5K-DT/R3-6K-DT/R3-8K-DT/R3-10K-DT/R3-12K-DT/R3-15K-DT

Model	R3-4K-DT	R3-5K-DT	R3-6K-DT	R3-8K-DT	R3-10K-DT	R3-12K-DT	R3-15K-DT
Rated AC power	4000 W	5000 W	6000 W	8000 W	10000 W	12000 W	15000 W
Maximum AC power	4400 VA	5500 VA	6600 VA	8800 VA	11000 VA	13200 VA	16500 VA
<b>Input</b>							
Maximum input power	5000 W	6500 W	7200 W	9600 W	12000 W	14000 W	18000 W
Max. DC input voltage	1000 V						
MPPT operating voltage range	160 ~ 950 V			250 ~ 950 V			
Startup voltage	160 V	160 V	160 V	200 V	200 V	200 V	200 V
Min. DC Voltage	110 V						
Number of MPPT	2						
Maximum input current	12.5 A/12.5A	12.5 A/12.5A	12.5 A/12.5A	12.5 A/12.5A	12.5 A/12.5A	12.5 A/12.5A	20 A/12.5A
No. of Input Strings per Tracker	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1	2 / 1
DC terminal type	MC4						
<b>Output</b>							
Rated output current	5.8 A	7.3 A	8.7 A	11.6 A	14.5 A	17.4 A	21.8 A
Maximum output current	6.4 A	8 A	9.6 A	12.8 A	16.0 A	19.2 A	24.0 A
Rated power grid voltage	400V/320-480V; 3+N+PE,3+PE						
Grid frequency/ range	50 Hz / 60 Hz 45 ~ 55 Hz / 55 ~ 65 Hz						
AC voltage Range	320 ~ 480 V (May vary as per corresponding country's grid standard)						
power factor	0.8leading ~0.8lagging ( full load)						
THDi	< 3%						
<b>Efficiency</b>							
Maximum efficiency	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%	98.3%
European efficiency	97.6%	97.6%	97.6%	97.6%	97.8%	97.8%	97.8%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Protect</b>							
DC Switch	Integrated						
Insulation monitoring	Integrated						
DC reverse-polarity protection	Integrated						
AC over current protection	Integrated						
Anti-Islanding protection	Integrated						
Residual current detection	Integrated						
SPD	MOV UL: E327997/CSA: 246579/VDE: 40027827						
<b>General Parameters</b>							
Dimensions(W×H×D)	455 x 390 x 190 mm						
Weight	16 kg	16 kg	16 kg	16 kg	18 kg	18 kg	21 kg
Installation method	Wall mounted installation						
Display	3.5 inches character LCD						
Communication	RS485(optional)/WIFI (optional)/GPRS(optional)						
Ambient temperature range	-25 °C ~ 60 °C						
Relative humidity	0~98%( no condensation)						
Operating altitude	4000m (>2000m derating Operation)						
Standby Self Consumption	< 0.2 W						
Topology	transformerless						
Heat dissipation	Natural	Natural	Natural	Natural	Natural	Natural	Natural
Protection degree	IP65						
Noise emission	< 30 dB						
Warranty	Standard 5 years 10/15/20/25 years extension optional						
Certifications	IEC 62109-1, IEC 62109-2, EN 61000-2, EN 61000-3, AS/NZS 3100, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29, VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G83/2, UTE C15-712-1, MEA, PEA, AS4777, NB/T 32004-2013, IEC60068, IEC61683, IEC61727, IEC62116, EN50438						



# R3 Pro Series ( THREE PHASE GRID ON )

NAC20K-DT/NAC25K-DT/NAC30K-DT/NAC33K-DT

Model	NAC20K-DT	NAC25K-DT	NAC30K-DT	NAC33K-DT
Rated AC power	20000 W	25000 W	30000 W	33000 W
Maximum AC power	22000 VA	27600 VA	30000 VA	33000 VA
<b>Input</b>				
Maximum input power	26000 W	32500 W	37000 W	39000 W
Maximum DC input voltage	1000 V			
MPPT operating voltage range	250 ~ 950 V			
Startup voltage	350 V			
Min. DC Voltage	200 V			
Number of MPPT	2			
Maximum input current	20 A / 20 A	20 A / 30 A	30 A / 30 A	30 A / 30 A
Number of DC Connection Sets per MPPT	2 / 2	2 / 3	3 / 3	3 / 3
DC terminal type	MC4			
<b>Output</b>				
Rated output current	29 A	36.5 A	43 A	48 A
Maximum output current	32 A	40 A	43 A	48 A
Rated power grid voltage	400 V; 3+N+PE, 3+PE			
Rated power grid frequency	50HZ/60HZ 45~55HZ/55~65HZ			
AC voltage Range	320 ~ 480 V ( May vary as per corresponding country's grid standard )			
power factor	0.8leading ~0.8lagging ( full load)			
DC current injection	< 0.5%			
THDi	< 3%			
<b>Efficiency</b>				
Maximum efficiency	98.3%	98.4%	98.5%	98.5%
European efficiency	98.0%	98.1%	98.2%	98.2%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%
<b>Protect</b>				
DC Switch	Integrated			
Insulation monitoring	Integrated			
DC reverse-polarity protection	Integrated			
AC over current protection	Integrated			
Anti-Islanding protection	Integrated			
Residual current detection	Integrated			
SPD protection	Standard (Type II) , IEC61643-11:2011/EC61643-11:2012/UL1449 Ed.4/ EN50539-11:2013			
<b>General Parameters</b>				
Dimensions(W×H×D)	660 x 460 x 255 mm			
Weight	38 kg			
Installation method	Wall mounted installation			
Display	3.5 Inch LCD			
Communication	RS485(standard),WIFI (optional)/GPRS(optional)			
Ambient temperature range	-25 °C ~ 60 °C			
Relative humidity	0~98%( no condensation )			
Operating altitude	≤ 4000m			
Standby Self Consumption	< 0.2W			
Topology	transformerless			
Heat dissipation	Natural	Natural	Natural	Fan
Protection degree	IP65			
Noise emission	<35dB			
Warranty	5 year(Standard),10/15/20/25 year(Optional)			
Certifications	IEC 62109-1, IEC 62109-2, EN 61000-2, EN 61000-3, AS/NZS 3100,EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-18, EN 61000-4-29, VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G83/2, UTE C15-712-1, MEA, PEA, AS4777, NB/T 32004-2013,IEC60068, IEC61683, IEC61727,IEC62116,EN50438			



# R3 Plus Series ( THREE PHASE GRID ON )

NAC50K /NAC60K /NAC70K /NAC80K

Model	NAC50K	NAC60K	NAC70K	NAC80K
<b>DC Input Data</b>				
Recommended Max.DC Power	57000W	68000W	80500W	92000W
Max.DC Voltage	1100V	1100V	1100V	1100V
MPPT voltage Range	200-1000V			
Start-up Voltage	250V			
Min. DC Voltage	200V			
No. of MPP Trackers	3		4	
No. of Input Strings per Tracker	4/4/4	4/4/4	3/3/3/3	4/4/3/3
Max. DC Input Current	38A/38A/38A	40A/40A/40A	33A/33A/33A/33A	44A/44A/33A/33A
Type of DC Connector	MC4			
DC Switch	Integrated			
<b>AC Output Data</b>				
Rated AC Power	50000W	60000W	70000W	80000W
Max.output power	55000W	66000W	77000W	88000W
Rated AC Current	72A	87A	101A	115.5A
Max. AC Current	80A	95A	111.1A	127A
Nominal AC Voltage/Range	230V/400, 320-480Vac			
Grid frequency/ range	50HZ/60HZ 45~55HZ/55~65HZ			
Power Factor[cos φ]	0.8leading ~0.8lagging ( full load)			
Total Harmonic Distortion [THDi]	<3%			
Number of output phases	3W+N+PE,3W+PE			
<b>Efficiency</b>				
Max.Efficiency	99.00%	99.00%	99.00%	99.00%
Euro Efficiency	98.50%	98.50%	98.50%	98.50%
MPPT Accuracy	99.90%	99.90%	99.90%	99.90%
<b>Protection</b>				
DC Insulation Monitoring	Integrated			
Input Reverse Polarity Protection	Integrated			
Output Over Current Protection	Integrated			
Anti-island Protection	Integrated			
GFCI Monitoring	Integrated			
OverHeat Protection	Integrated			
DC reverse connection protection	Integrated			
DC surge protection	Optional Standard (TypeII )			
AC surge protection	Optional Standard (TypeII )			
String failure detection	Optional			
<b>General Data</b>				
Size(Width*Height*Depth)	630×815×280mm	640×841×285mm	640×841×285mm	640×841×286mm
Weight	62KG	76KG	76KG	76KG
Mounting	Wall Hangings			
User Interface	LCD			
Communication	RS485(standard) ,WiFi(optional),GPRS(optional)			
Ambient Temperature Range	-25 C ~ 60 C (> 45 C Derating Operation)			
Relative Humidity	0-100% ( No condensation )			
Operating Altitude	4000m (>3000m derating Operation)			
Standby Self Consumption	<1W			
Topology	Transformerless			
Cooling	Intelligent Air Cooling	Intelligent Air Cooling	Intelligent Air Cooling	Intelligent Air Cooling
Protection Grades	IP65			
Noise	<60db			
Warranty	5 year(Standard),10/15/20/25 year(Optional)			
<b>Certifications &amp; Standards</b>				
VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G59/3, UTE C15-712-1, MEA, PEA, AS4777, EN50438,NB/T 32004-2018,CEI-021,IEC61727 IEC 62109-1, IEC 62109-2,AS/NZS 3100, EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29				



# N1 Hybrid Series ( Hybrid Inverter )

ESC3000-DS / ESC3680-DS / ESC5000-DS

Model	ESC3000-DS	ESC3680-DS	ESC5000-DS
<b>PV input data</b>			
Max. PV-generator power	3300 W	4000 W	5000 W
Max. DC Voltage		580V	
MPPT Voltage Range		100~500V	
Start-up Voltage		110 V	
Min. DC Voltage		75V	
Max. DC current		12A /12A	
Numbers of MPPT		2	
Strings per MPPT		1	
Type of DC Connector		MC4	
<b>AC Output data(On-grid)</b>			
Nominal AC power	3000 W	3680 W	4600 W
Max. AC Power	3000 W	3680 W	4600 W
Max. AC Current	13 A	16 A	21.7 A
Nominal AC Voltage/ Range		230V/180-270V	
Grid frequency/ range		50HZ/60HZ 45~55HZ/55~65HZ	
Output Power factor		0.8leading ~0.8lagging ( full load)	
Output THDi(@Nominal Output)		<3%	
<b>AC Output data(Back-up)</b>			
Max.Output Apparent Power		3000 W	
Nominal Output Voltage		230 V	
Nominal Output Frequency		50 / 60 Hz	
Max.Output Current		13 A	
Harmonic distortion [THD] at rated output		<3%	
Automatic Switch Time		<5s	
Peak power[W],Duration		4500VA,10 s	
<b>Battery Input Data</b>			
Battery Type		Lead-acid battery/lithium battery	
Nominal Battery Voltage		48 V	
Battery Voltage range		40~60 V	
Max.Charging/Discharging Current		60 A	
Communication interfaces		CAN	
<b>Efficiency</b>			
Max. efficiency	97.60%	97.60%	97.60%
Euro efficiency	97.00%	97.00%	97.00%
MPPT adaptation efficiency	99.90%	99.90%	99.90%
<b>General data</b>			
Dimension[W*H*D]		526*528*178 mm	
Weight		29.5 kg	
Mounting		Wall Hangings	
User Interface		LCD	
Communication		Ethernet(standard), RS485(Optional), Wifi(Optional)	
Operating Temperature Range		-25 °C ~ 60 °C	
Relative Humidity		0-98% (No condensation)	
Operating Altitude		≤4000m	
Standby Self Consumption		<1W	
Topology		transformerless	
Cooling		Natural Convection	
Protection Grades		IP65	
Noise		<35db	
Warranty		5 year(Standard), 10/15/20/25 year(Optional)	
Certifications	IEC 62109-1, IEC 62109-2,AS/NZS 3100,VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G59/3, UTE C15-712-1,MEA, PEA, AS4777, EN50438,NB/T 32004-2013,CEI-021 EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29 IEC60068, IEC61683, IEC61727,IEC62116,EN50438		



# N1 HV Series

N1-HV-3.0 / N1-HV-3.7 / N1-HV-4.6 / N1-HV-5.0

Model	N1-HV-3.0	N1-HV-3.7	N1-HV-4.6	N1-HV-5.0
<b>DC Input Data</b>				
Max. recommended PV power	4000 W	5000 W	6000 W	6000 W
Max.DC DC voltage	600V			
System startup voltage	120V			
Shutdown voltage Typical	80V			
MPPT Voltage Range	360~500V	280~500V	304~500V	258~500V
Maximum Input Current	10A/10A			
No of MPPT / Inputs per mppt	2\1			
<b>AC Output Data(on-grid)</b>				
Rated AC Power	3000 W	3680 W	4600 W	5000 W
Max.output power	3000 W	3680 W	4600 W	5000 W
Max. AC Current	13 A	16 A	20 A	21.7 A
Nominal AC Voltage/Range	230V/180-270V			
Grid frequency/ range	50HZ/60HZ 45~55HZ/55~65HZ			
Power Factor[cos φ]	0.8leading ~0.8lagging ( full load)			
Total Harmonic Distortion [THDi]	<3%			
<b>AC Output Data(Back-up)</b>				
Rated Output Apparent Power	3000 W	4000 W	5000 W	5000 W
Max. Output Apparent Power	3000 W	4400 W	5500 W	5500 W
Rated output current	13 A	17.4 A	21.7 A	21.7 A
Max.output current	14.4A	19 A	24 A	24 A
Peak power , Duration	4500 W,10s	6000 W,10s	7500 W,10s	7500 W,10s
Nominal output voltage	230V			
Nominal output frequency	50HZ/60HZ			
Total Harmonic Distortion [THDi] at reted output	<3%			
Automatic switch time	<0.5s			
<b>Battery Input Data</b>				
Battery Type	Lead-acid battery/lithium battery			
Norminal Battery Voltage	300VDC			
Battery Voltage Range	85-400V			
Max. Charging / Discharging Current	25A			
Communication Interface	CAN			
<b>Efficiency</b>				
MPPT efficiency	99.90%	99.90%	99.90%	99.90%
Max. efficiency	97.80%	97.80%	97.80%	97.80%
Euro Efficiency	97.0%	97.0%	97.0%	97.0%
Max. Battery discharge efficiency <sup>(BAT to AC)</sup>	97.0%	97.0%	97.0%	97.0%
<b>Protection</b>				
DC isolation protection	Intergrated			
Monitoring ground fault protection	Intergrated			
Output Over Current Protection	Intergrated			
Anti-island Protection	Intergrated			
Residual current detection	Intergrated			
OverHeat Protection	Intergrated			
Over load protection	Intergrated			
Over/under voltage protection	Intergrated			
<b>General Data</b>				
Size(Width*Height*Depth)	480*460*180mm			
Weight	24 kg			
Mounting	Wall Hangings			
User Interface	3.5"LCD, LED, KEY			
Communication	Ethernet(standard), RS485(Optional), Wifi(Optional)			
Ambient Temperature Range	-25 C ~ 60 C (> 45 C Derating Operation)			
Relative Humidity	0-98% (No condensation)			
Operating Altitude	4000m (>2000m derating Operation)			
Standby Self Consumption	<1W			
Topology	transformerless			
Cooling	Natural Convection			
Protection Grades	IP65			
Noise	<35db			
Warranty	5 year(Standard),10/15/20/25 year(Optional)			
Certifications & Standards	VDE-AR-N-4105, VDE 0126-1-1+A1, CE, G59/3, UTE C15-712-1,MEA, PEA, AS4777, EN50438,NB/T 32004-2013,CEI-021 IEC 62109-1, IEC 62109-2,AS/NZS 3100 EN 61000-6-1, EN 61000-6-2, EN 61000-6-3, EN 61000-6-4, EN 61000-4-16, EN 61000-4-18, EN 61000-4-29			

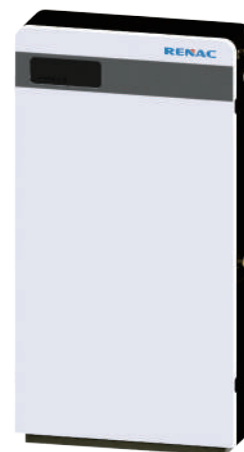


# N1 AC series

N1-AC-3.0L / N1-AC-3.7L / N1-AC-5.0L



Model	N1-AC-3.0L	N1-AC-3.7L	N1-AC-5.0L
<b>AC Input Data</b>			
Rated AC power	3000VA	3680VA	5000VA
Max.output power	3300VA, 10s	4500VA, 10s	5500VA, 10s
Max. AC Current	13A	16A	24A
Nominal AC Voltage/Range	230V/187-270V		
Grid frequency/ range	50HZ/60HZ 45~55HZ/55~65HZ		
Power Factor[cos φ]	0.8leading ~0.8lagging ( full load)		
<b>AC Output Data(Back-up)</b>			
Rated Output Apparent Power	3000VA	3680VA	5000VA
Max. Output Apparent Power	3300VA, 10s	4500VA, 10s	5500VA, 10s
Rated output current	13A	16A	21.7A
Max.output current	14.3A		24A
Nominal output voltage	230V		
Nominal output frequency	50/60HZ		
THDi	<3%		
Automatic switch time	<20ms		
<b>Battery Input Data</b>			
Battery Type	Lion		
Norminal Battery Voltage	48V		
Battery Voltage Range	42-58V		
Max. Charging / Discharging Current	65A		
<b>Efficiency</b>			
Max. Battery charge efficiency(AC to BAT )	94.7%	94.7%	94.7%
Max. Battery discharge efficiency(BAT to AC)	94.5%	94.5%	94.5%
<b>Protection</b>			
Surge protection	YES		
Output short circuit protection	YES		
Protection Class	I		
Overvoltage Category	DC II / Mains III		
<b>General Data</b>			
Dimensions (WxHxD)	385*455*194mm		
Weight	17KG	20KG	21KG
Environmental Protection Rating	IP65		
DC/AC Connertor	Fastening Screw		
Cooling	Natural Convection		
Mounting	Wal Bracket		
Operating Temperatire Range	-25 C ~ 60 C (> 45 C Derating Operation)		
Relative Humidity	0-95% (No condensation)		
Operating Altitude	4000m (>2000m derating Operation)		
Noise	<35db		
Topology	High Frequency Isolation		
Communication with BMS	CAN/RS485		
Communication with Meter	RS485		
Monitoring	Wifi/GPRS		
Firmware Upgating	USB Disk		
HMI	LED&LCD, CapSen Key		
Certifications	AS 4777.2, C10/11, CE, CEI 0-21, EN 50438, G59/3-4, G83/2-1, DIN EN 62109 / IEC 62109, EN50438, RD1699., VDE-AR-N 4105, VDE0126-1-1,IEC 61727, IEC 62116		



# Power Case

Power Case-3.58L / Power Case-7.16L

Model	Power Case-3.58L	Power Case-7.16L
Battery Type	LiFePO4	
Battery Module	1 Module	2 Modules
<b>Nominal Characteristics</b>		
Nominal Voltage	51.2V	
Battery Capacity	70Ah	140Ah
Nominal Battery Energy	3.58kWH	7.16kWH
Peak Output Current	70A	140A
<b>Electrical Specification</b>		
Voltage Range	44.8V-57.6V	
Max.Charging Current	70A	
Max.Discharging Current	70A	
<b>Mechanical Specifications</b>		
Net Weight	59kg	94kg
Demension	526*170*1002mm	
Ingress Rating	IP65	
Color	White(Customizable)	
Cooling	Natural Convection	
<b>Communication Specifataction</b>		
Communication Port	CAN / RS485	
<b>Operation Conditions</b>		
Operation Temperature Range	0-50 C	
Operation Humidity	<95%	
Altitude	<2000m	
Calender Life	>6000 Cycles	
<b>Protection</b>		
OverCharge/Overdischarge Protection	Integrated	
OverCurrent Protection	Integrated	
Overtemperature Protection	Integrated	
Short Circuit Protection	Integrated	
<b>Certification</b>		
Safety	CE/EN62619	
EMC	EN61000	
Transport	UN38.3	
Environment	ROHS	

