

# ALL IN ONE Solution

ESS 5.5kw hybrid solar inverter with 10.24kWh-20.48kWh lithium-ion battery



## Technical Data

Integrated 5.5kw hybrid solar inverter and lithium-ion battery module

Self-consumption and Feed-back to the Grid

Programmable supply priority for PV battery or Grid

ser-adustablebatterychargingcurrent

Programmable multiple operation modes:Grid-tie off-gridand grid-tie with backup

Built-intimer for various mode of on/offoperation

MultiplecommunicationforSBRS232 ModbusSNMPGP RSandWi-Fi

Monitoring software for real-times tatus display and control

Enhance AC/Solar charger to100A

Scalablei-Ionbatteryexpansion

i-Ionbatterylifetime:6000cyclesat25 ° C

High surge discharging current up to 3C

IP20

<b>INVERTER MODE</b>		<b>ESS5.5kw</b>
Maximum PV Input Power		6500W
Rated Output Power		5500W
Maximum Charging Power		2880W
<b>PV INPT (DC)</b>		
Nominal DC Voltage / Maximum DC Voltage		360VDC/500VDC
Start-up Voltage / Initial Feeding Voltage		116VDC/150VDC
MPP Voltage Range		120VDC/450VDC
Number of MPP Trackers / Maximum Input Current		2/2x13A
<b>GRID OTPT</b>		
Nominal Output Voltage		208/220/230/240VAC
Output Voltage Range		184-264.5 VAC
Max Output Current		23.9A
Maximum Conversion Efficiency(DC/AC)		96%
European Efficiency@ Vnominal		96%
<b>AC INPT</b>		
AC Start-up Voltage / Auto Restart Voltage		120-140 VAC / 180 VAC
Acceptable Input Voltage Range		170-280 VAC
Maximum AC Input Current		40A
<b>BATTERY MODE OTPT (AC)</b>		
Nominal Output Voltage		208/220/230/240VAC
Efficiency (DC to AC)		93%
<b>BATTERY CHARGER</b>		
Nominal DC Voltage		48VDC
Maximum Charging Current		100A
<b>PHYSICAL</b>		
Dimension D x W x H (mm)		214x621x500
Net Weight (kgs)		25
<b>STANDARD</b>		
Compliance Safety	IEC/EN62109-1/-2 IEC62040-1 EN61000-6-4 ENIEC61000-6-2 ENIEC61000-3-11 EN61000-3-12 IEC61727 IEC62116 G99 NRS097-2-1 EN50549-1	

## ALL IN ONE BATTERY SPECIFICATION

BatteryData	YD10.24	YD15.36	YD20.48
Batterytype	LiFePO4	LiFePO4	LiFePO4
NominalStoragecapacity(kWh)	10.24	15.36	20.48
Battery capacity(Ah)	200	300	400
Normalvoltage(V)	51.2	51.2	51.2
Voltagerange(V)	43.2-58.4	43.2-58.4	43.2-58.4
Max.chargecurrent(A)	100A	100A	100A
Max.dischargecurrent(A)	100A	100A	100A
DOD	80%	80%	80%
Cyclelife	6000	6000	6000
RegularParameters			
Dimension(DxWxH)	214mmx621mmx1600mm	214mmx621mmx1600mm 214mmx621mmx550mm	214mmx621mmx1600mm 214mmx621mmx1100mm
Weight(kg)	124kg	177kg	231kg
Communication	CAN,	WIFI,CAN	WIFI,CAN
Operatingtemperaturerange(°C)	-10~+45	-10~+45	-10~+45
Storagestabilityrange(°C)	-20~+60	-20~+60	-20~+60
Relativehumidity	0-95%	0-95%	0-95%
Altitude(m)	<2000	<2000	<2000
Coolingmethods	Forcedairflow	Forcedairflow	Forcedairflow
Degreeofprotection	IP20	IP20	IP20
Certificates	IEC/62619 60730	IEC/62619 60730	IEC/62619 60730
Warranty	10Year,Optional5yearextension		