

# Single Phase Hybrid Inverter



## 6.5KW



Feed-in to the Grid



Separate Generator Port Available

**BMS**

Built-in BMS



Built-in Wi-Fi



Dual Output



Touch Screen



Dual MPPT PV Input



Built-in 120A Mppt solar charger



Parallel Operation up to 16 Units



**PV - 9600**



MODEL NAME	ELEGO-STAR-6.5KW
<b>RATED POWER</b>	<b>6500VA/6500W</b>
<b>PV INPUT (DC)</b>	
Max. PV array power (W)	9600
Rated PV input voltage (V)	320
Number of independent MPPT inputs	2
PV input voltage range (V)	100 – 500
MPPT voltage range (V)	120 ~ 400
Start-up voltage (V)	100
Max. PV input current per MPPT (A)	17 / 17
Max. PV short-circuit current input per MPPT (A)	25 / 25
<b>BATTERY</b>	
Compatible battery type	Lithium-ion / Lead-Acid
Rated battery voltage (V)	48
Battery voltage range (V)	38.4 ~ 60
Max. charge / discharge current (A)	140 / 140
Max. charge / discharge power (W)	6000/6500
Recommend capacity of battery per inverter	>200AH
Force wake up battery from PV function	Yes
Force wake up battery from Grid function	Yes
<b>GRID</b>	
Rated AC voltage (V)	230
Rated AC frequency (Hz)	50 / 60
Rated AC output current (A)	28.3
Rated AC output power (W)	6500
Max. AC input power (W)	9000
Power factor	0.99
THDI	<5%
Max. continuous AC passthrough current (A)	40
<b>UPS</b>	
Rated output power (W)	6500
Rated output voltage (V)	230
Rated output current (A)	28.3
Rated output frequency (Hz)	50 / 60
Surge power, duration	2Pn, <2s
Switching time (Ups )	<15ms @ single / <30ms @ parallel
Wave form	sine wave
THDV	3%
<b>EFFICIENCY</b>	
MPPT efficiency	99.9%
Max. efficiency	93.0%
Max. charge efficiency	93.0%
Max. discharge efficiency	93.0%
<b>PROTECTION</b>	
Over current / voltage protection	YES
AC short - circuit current protection	YES
Grid monitoring	YES
DC surge protection type III	YES
AC surge protection type III	YES
Battery reverse polarity protection	YES
<b>GENERAL</b>	
Dimensions, W*H*D (mm)	330*505*135
Weight (Kgs)	14.5
Ingress protection rating	IP21
Operating environment temperature range (°C)	0 ~ 50
Storage temperature range (°C)	-15 ~ 60
Relative humidity	5% ~ 95%
Display communication interface	Touch screen, RS485 / Wifi / CAN
Cooling method	Smart cooling
Topology on AC side	Transformer-less
Altitude (M)	<2000m
Noise emission (typical)	<50dB