

CROWN

**6
YEARS
WARRANTY**

Terms & Conditions Apply

ELEGO **STAR**

6.5KW

PURE SINE WAVE SOLAR MPPT BASED INVERTER

PV - 9600



PRODUCT KEY FEATURES

- Pure sine wave solar MPPT based inverter
- Automatically assigns a primary unit for parallel operation of up to 16 inverters
- Maximum PV input power to 9600W
- Touch Screen
- Optimizes two solar arrays independently
- Built-in dual output
- Self-consumption and feed-in to grid
- Built-in BMS & Wi-fi
- Off-grid seamless switch
- Separate generator port available



Feed-in to
the Grid



24/7
Real-Time
Monitoring APP



Dual AC
Output



Parallel
Operations
up to 16 Units



Touch
Screen



Battery Management
System



Built-in
Wi-fi



RGB
Lights



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Technical Data

MODEL NAME	ELEGO-STAR-6.5KW
RATED POWER	6500VA/6500W
PV INPUT (DC)	
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
BATTERY	
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)	6500
Recommend capacity of battery per inverter	>200AH
Force wake up battery from PV function	Yes
Force wake up battery from Grid function	Yes
GRID	
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
UPS	
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%
EFFICIENCY	
MPPT efficiency	99.9%
Max. efficiency	93.0%
Max. charge efficiency	93.0%
Max. discharge efficiency	93.0%
PROTECTION	
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
GENERAL	
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 / Wi fi/ CAN
Cooling method	Smart cooling
Topology on AC side	Transformer-less
Altitude (M)	<2000m
Noise emission (typical)	<50dB

Product specifications are subject to change without further notice.