



# EnerSalvys

**ESS6000 & 10000LV-HYBRID**  
**On-Grid Off-Grid & Storage**  
**Split Phase 120/208/240VAC**

With the ingress protection to IP65 AblereX ESS6000 & 10000LV-HYBRID is suitable for use both in outdoors applications and indoor environments where atmospheric moisture and dust are present. Parallel operation max 6 units for greater power and capability, enables a power rating of up to 60 kW . This makes it possible to create energy solutions for homes, offices and small commercial buildings applications.



HOME/SMALL  
OFFICES



COMMERCIAL



RESIDENTIAL



SMALL  
CORPORATION

## Highlights:

- IP65 waterproof and dust proof makes this inverter available for various conditions
- Self consumption and Feed to the grid
- External CT sensor for self consumption
- Priority supply for PV, Battery or Grid
- Communication port for BMS (RS485)
- Multiple operation modes: Grid tie, off grid-tie, with backup
- Accepts second input power source, generator input compatible
- Build in WiFi for mobile monitoring (APP is available)
- Parallel operation up to 6 units

# ESS 6 & 10kW LV-HYBRID Series Specifications

MODEL		AB-ESS6000LV-HYBRID	AB-ESS10000LV-HYBRID
Capacity	Phase	120V/240V Split phase, 120V/208V Split Phase	
	Maximun PV input power	7500W	12000W
	Rated output power	6000VA / 6000W	10000VA / 10000W
	Maximun Charger power	6000W	10000W
<b>Grid-Tie Operation</b>			
PV input DC	Maximun DC voltage	600 VDC	
	Start-Up Voltage/Initial feeding	120VDC / 160 VDC	
	MPP Voltage Range	120 VDC ~ 550 VDC	
	MPP trakers/Maximun Current	2 / 15A	2 / 18A
Grid Output AC	Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)	
	Output Voltage Range	97VAC ~ 132VAC (P-N) / 194 VAC ~ 264VAC (P-P)	
	Nominal Output Current	27.3 A per phase	41.5A per phase
	Power factor	0.9 lag to 0.9 lead	
	Efficiency	96%	
<b>Off-Grid Operation</b>			
AC Input	AC Start-Up / Auto Restart	85VDC (P-N), 170VAC (P-P) / 90VAC (P-N), 180VAC (P-P)	
	Acceptable Input Voltage Range	85 ~ 140 VDC (P-N), 170 ~ 280 VAC (P-P)	
	Frequency Range	50 / 60 Hz (Auto-sensing)	
	Maximun AC Input Current	30 A per phase	40 A per phase
PV Input (DC)	Maximun DC Voltage	600 VDC	
	MPP Voltage Range	120 VDC ~ 550 VDC	
	MPPTrackers # / Max. Current	2 / 15 A	2 / 18 A
Battery Mode Output (AC)	Nominal Output Voltage	110 VAC (P-N), 220 VAC (P-P)	
	Output Wave Form	Pure sine wave	
	Efficiency (DC to AC)	91%	
<b>Hybrid Operation</b>			
PV Input (DC)	Maximun DC Voltage	600VDC	
	Start-up / Initial feeding Voltage	120 VDC / 160 VDC	
	MPP Voltage Range	120 VDC ~ 550 VDC	
	MPP Trackers /Maximun Current	2 / 15 A	2 / 18 A
Grid Output (AC)	Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)	
	Output Voltage Range	97-132 VAC (P-N) / 194-264 VAC (P-P)	
	Nominal Output Current	27.3 A per phase	41.5 A per phase
AC Input	AC Start-Up / Auto Restart	85VDC (P-N), 170VAC (P-P) / 90VAC (P-N), 180VAC (P-P)	
	Acceptable Input Voltage Range	85 ~ 140 VDC (P-N), 170 ~ 280 VAC (P-P)	
	Maximun AC Input Current		
Battery Mode Output (AC)	Nominal Output Voltage	110 VAC (P-N) / 220 VAC (P-P)	
	Efficiency (DC to AC)	91%	
Battery & Charger	Nominal DC Voltage	42 ~ 62 VDC	
	Max. Solar Charging Current	120 A	200 A
	Maximun AC Charging Current	120 A	200 A
	Maximun Charging Current	120 A	200 A
<b>General</b>			
Physical	Dimensions D x W x H (mm)	215.5 x 515 x 700	215.5 x 515 x 715
	Net Weight (kgs)	41	45
Interphase	Parallel Function	Yes, 6 units	
	Communication Ports	RS232, RS485, WI-FI, USB	
EWnviroment	Protection Degree	IP 65	
	Communication Ports	-25 C to 60 C (>45 C derating)	

\* Specifications subject to change without notice.