

Hybrid Inverter

☉ 1Phase | Low Voltage

AU3/3.6/4/4.6/5/6/8KESL

Advantage

☉ Austar Hybrid inverter are designed to increase energy independence for homeowners and commercial users, which is compatible with low voltage batteries.



The battery charge and discharge current up to 190A



Off grid peak power can reach twice of rated power (15S)



Battery side high frequency transformer isolation, safe and reliable



10ms switching



Model	AU3KESL	AU3.6KESL	AU4KESL	AU4.6KESL	AU5KESL	AU6KESL	AU8KESL
PV Input							
Max. DC input power(W)	4500	5400	6000	6900	7500	9000	12000
Max. DC input voltage(V)	500						
MPPT voltage range(V)	150-450						
Starting voltage(V)	125						
Max. input current(A)	18	18/18	18/18	18/18	18/18	18/18	30/18
Max. short circuit current (A)	22.5	22.5/22.5	22.5/22.5	22.5/22.5	22.5/22.5	22.5/22.5	37.5/22.5
Number of MPP trackers	1	2	2	2	2	2	2
Strings per MPP tracker	1						
AC Output (Grid)							
Rated output power (W)	3000	3600	4000	4600	5000	6000	8000
Max. output apparent power(VA)	3300	3960	4400	5060	5500	6600	8800
Rated output voltage(V)	220/230/240						
Rated output frequency(Hz)	50/60						
Max. output current(A)	15	18	20	22	25	27	40
THDi	< 3%						
Output power factor	~1 (-0.8 leading~+0.8 lagging)						
AC Output (Two Backup)							
Full Max. output power(W)	3000	3600	4000	4600	5000	6000	8000
Max. output apparent power(VA,sec)	6000,15	7200,15	8000,15	9200,15	10000,15	10000,15	16000,15
Rated output voltage(V)	220/230						
Rated output frequency(Hz)	50/60(±0.2%)						
Back up1 Max. output power(W)	3000	3600	4000	4600	5000	6000	8000
back up2 Max. output power((W)	3000	3600	4000	4600	5000	6000	8000
Output Power Factor(off grid)	1~(0.8 leading to 0.8 lagging)						
Output Current Harmonic Distortion	THD<3%(Nonlinear load); THD<1.5%(Linear load)						
Max. output current(A)	14	16	18	21	23	27	40
Battery Parameters							
Battery Type	Lithium or lead acid battery						
Rated battery voltage(V)	48						
Voltage range(V)	44-57						
Max. charge/discharge current(A)	75	90	100	110	120	120	190
BMS communication	CAN/RS485						
Efficiency							
Max. efficiency(PV)	97.6%						
Max. efficiency(cell)	94.5%						
European efficiency	97%						
Protection							
PV input reverse polarity protection	Yes						
PV insulation resistance detection	Yes						
Residual current detection	Yes						
Output over current protection	Yes						
Output short circuit protection	Yes						
Output over voltage protection	Yes						
Others							
Operating temperature range(°C)	-25~60						
Storage temperature range(°C)	-30~65						
Humidity range	0~95%						
Operating altitude (m)	≤4000						
Communication	RS485/CAN/WiFi/Ethernet/4G						
Protection degree	IP66						
Noise (db)	<25						
Size (W×H×D mm)	424*555*197					427*554*198	
Weight (kg)	19					19	
Standard							
EN 62109-1/2, IEC 62109-1/2, EMC 61000, EN50549, VDE 4105/0124, NRS 097-2-1, IEC61727/62116/61683							
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