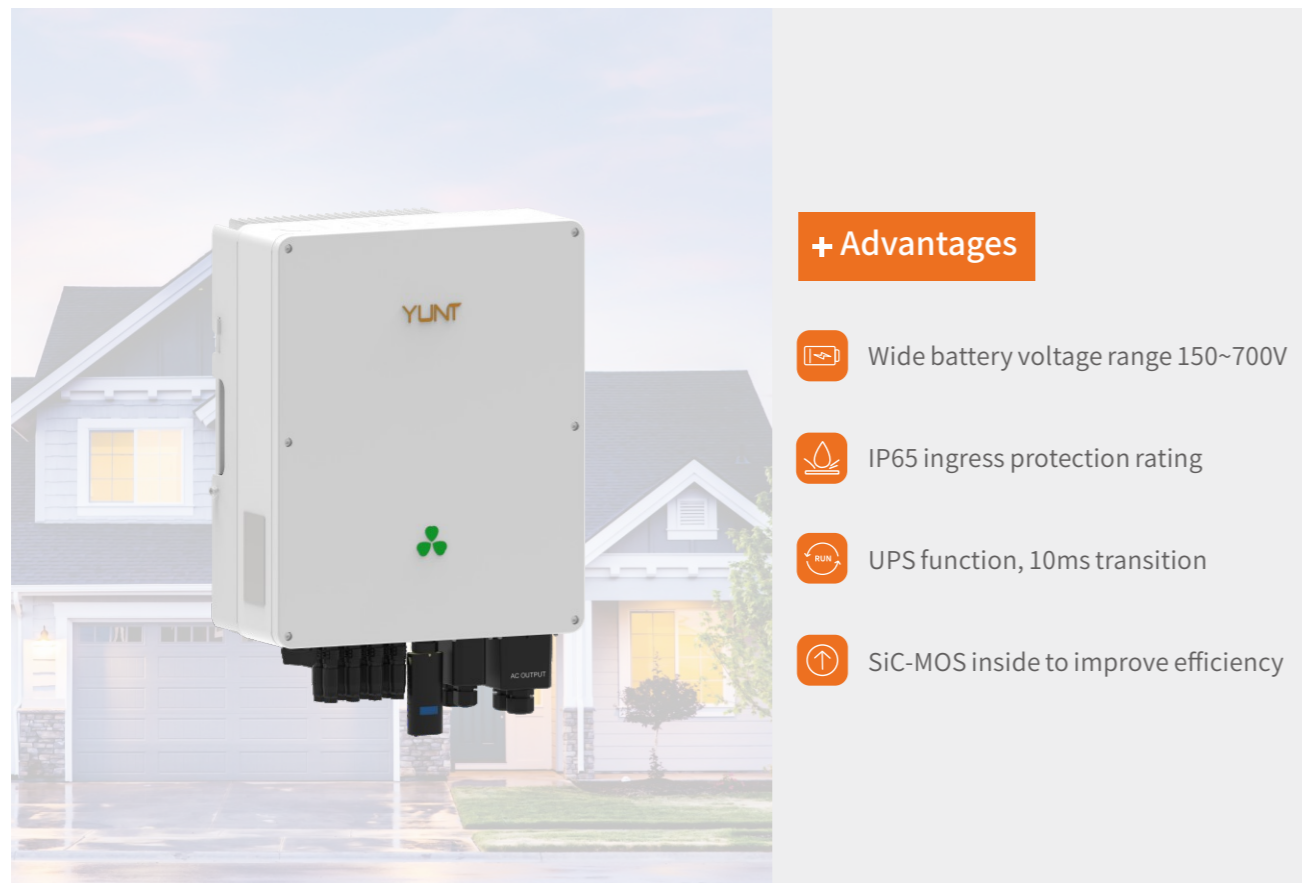


8~12kW Arcturus Series Hybrid Inverter



Specifications	Arcturus-8KT	Arcturus-10KT	Arcturus-12KT
System			
Topology	Non-isolated		
IP level	IP65		
Working temperature	-25~60°C (derating required above 45 °C)		
Relative humidity	0~100%		
Maximum working altitude	4000m (derating above 3000m)		
Cooling method	Natural cooling		
Noise(Average)	<30dB		
HMI	LED+APP		
Communication mode	BMS:RS485/CAN; METER:RS485; VPP:RS485; APP:WLAN		
Certification	IEC/EN62109-1, IEC/EN62109-2, IEC/EN61000-6-1, IEC/EN61000-6-3, IEC/EN61000-3, VDE-AR-N-4105		
Device			
Weight	28.0kg		
Dimensions (W*H*D)	415*510*186mm		
Installation	Wall-mounted		

Specifications	Arcturus-8KT	Arcturus-10KT	Arcturus-12KT
DC input (Battery side)			
Type of battery	Lithium-ion Battery	Lithium-ion Battery	Lithium-ion Battery
Battery voltage range	150~700V	150~700V	150~700V
Max. charge and discharge current	30/30A	30/30A	30/30A
Max. charge and discharge power	10000W/10000W	10000W/10000W	12000W/12000W
DC input (PV side)			
Max. input power	12000W	15000W	18000W
Max. input voltage	1000V		
Start-up voltage	200V		
Rated input voltage	600V		
MPPT voltage range	200-850V		
Number of MPPT inputs	2		
Number of strings/per MPPT	1/1	1/2	1/2
Max. input current/per MPPT	13.5A	13.5A/27A	13.5A/27A
Max. short-circuit current/per MPPT	16.9A	16.9A/33.8A	16.9A/33.8A
AC input & output (on-grid side)			
Rated AC input power	8000VA	10000VA	12000VA
Rated AC output current	12.2A	15.2A	18.2A
Max. AC output power	8800VA	11000VA	13200VA
Max. AC output current	13.4A	16.7A	20.0A
Max. AC input power	16000VA	20000VA	24000VA
Max. AC input current	24.3A	30.4A	36.5A
Rated grid voltage	3L/N/PE, 220/380V; 230/400V; 240/415V		
Rated grid frequency(range)	50Hz (45~55Hz), 60Hz (55~65Hz)		
Power factor	>0.99/0.8 (leading) ~0.8 (lagging)		
THD of current (at rated power)	<3%		
AC output (off-grid side)			
Rated output power	8000VA	10000VA	12000VA
Rated output current	12.2A	15.2A	18.2A
Max. output power	9600VA(5min)	12000VA(5min)	14400VA(5min)
Max. output current	14.6A(5min)	18.2A(5min)	21.8A(5min)
Rated output voltage	3L/N/PE, 220/380V; 230/400V; 240/415V		
Rated output frequency	50Hz/60Hz		
THD of voltage(linear load)	<2%		
Efficiency			
Max. efficiency	98.4%		
Euro efficiency	97.8%	97.9%	
Protection			
DC RCP	Yes		
DC switch(PVside)	Yes		
DC fuse(battery side)	Yes		
AC SCP	Yes		
HVRT/LVRT	Yes		
Overheat	Yes		
Insulation impedance detection	Yes		
Residual current monitoring	Yes		
Anti-islanding protection	Yes		
Overvoltage	III[AC side], II[PV side][battery side]		
Surge protection	DC Type II / AC Type II		