

Cygni Series

- Elegant
- Smart
- Reliable

Single-phase All-in-one HV System
8/10kW + 7.68~15.36kWh



PRODUCT INTRODUCTION

Dyness Cygni Series is a brand-new all-in-one residential system especially designed for Australia and New Zealand markets for both new installation and retrofit scenario. This product offers 8kW and 10kW capacity options, which ensures higher energy independence and more bill-savings. Starting with 7.68kWh, it is expandable up to 15.36kWh if required. Wiring-free stack design makes the system installation easier than ever. LFP cell type and optional AFCI function ensure the safety of the whole system. Cygni also offers an optimized user experience with UPS function, ultra-rapid charge (1C), LCD display, and over-the-air updates & 24/7 monitoring.

PRODUCT CHARACTERISTICS



Easy Installation
Wiring-free stack design



Intelligent Monitoring & Control
Real-time Data and Smart Load Control



VPP Ready
Quick Demand Response



Ensured Safety & Reliability
AI-motivated AFCI, LiFePO4 Cell Type



Ultra-rapid Charge
One hour to fully charge the battery



IP66 - High Protection
Indoor & Outdoor Installation

System Type	Cygni Hybrid		Cygni AC	
Inverter Model	Cygni 8.0HS	Cygni 10.0HS	Cygni 8.0AS	Cygni 10.0AS
Battery Input Data				
Battery Type	LiFePO4			
Battery Module	Cygni BAT-3.8			
Expandable Quantity	2~4			
Usable Energy (kWh)	7.68~15.36			
Operating Voltage (V)	168~438			
Nominal Voltage (V)	192~384			
Max.Charge/Discharge Power (kW)	7.68~11			
Max. DOD (Depth of Discharge)	95%			
Cycle Life	≥8000 Cycles			
PV String Input Data				
200%PV Oversizing (W)	16000	20000	-	
Max. PV Input Power (W)	12000	15000	-	
Max. PV Input Voltage (V)	600		-	
MPPT Range (V)	60~550		-	
Start-up Voltage(V)	60		-	
Nominal PV Input Voltage (V)	390		-	
Max. Input Current / Max. Short Current (A)	16 / 23		-	
No. of MPP Trackers / Strings per MPP Tracker	3 / 1			
AC Output Data (On-grid)				
Nominal Power Output To Grid (VA)	8000	9999	8000	9999
Max Power Output To Grid (VA)	8000	9999	8000	9999
Max Power From Grid (VA)	8000	9999	8000	9999
Nominal Output Voltage (V)	230			
Nominal Output Frequency (Hz)	50			
Output Power Factor	Adjustable from 0.8 leading to 0.8 lagging			
Output THDi (Nominal Power)	< 3%			
AC Output Data (Back-up)				
Nominal Output Power (VA)	8000	10000	8000	10000
Max. Output Power (VA)	9600	12000	9600	12000
Nominal Output Voltage (Vac)	230			
Nominal Output Frequency (Hz)	50			
Output THDv (@Linear Load)	< 3%			
Backup UPS (ms)	< 10			
Inverter Efficiency				
Max. Efficiency	97.5%			
European Efficiency	97.0%			
Protection				
Anti-island Protection	Integrated			
Battery Reverse Protection	Integrated			
Residual Current Monitoring Unit	Integrated			
Over Current/Voltage Protection	Integrated			
AC Short Circuit Current Protection	Integrated			
DC Switch (PV II)	Integrated			
AFCI	Optional			
Surge Protection	DC Type II/AC Type III			
General Data				
Topology	Non-Isolated			
Operating Temperature Range (°C)	-10~50			
Relative Humidity (%)	0~95%			
Operating Altitude (m)	3000			
Cooling	Natural Convection			
Noise (dB)	<35			
Inverter / Battery Module Weight (kg)	27.5 / 41.5			
System Weight (kg)	117.5or159or200.5 (Depending on the module number)			
Inverter / Battery Module Size (W*H*D mm)	650*450*180 / 650*300*180			
System Size (W*H*D mm)	650*1130*180or650*1430*180or650*1730*180 (Depending on the module number)			
Installation Methods	Wall-Mounted & Floor-standing			
Communication	RS485, Wi-Fi, Bluetooth, Ethernet			
Display	LCD Screen; APP; Web			
Enclosure Type	IP66			
Certifications & Standards	UN38.3, AS/NZS 4777.2: 2020, IEC 62109-1/2, IEC62040,EN 62920:2017/A1:2021,IEC/EN 61000-6-1/3			
Country of Manufacture	China			