

OnyxLine

BETA 4.2 Twin Hybrid Inverter

WiFi Optional



BEAT 4.2KW-TWIN

TECHNICAL SPECS ONY-I-B-4.2TWIN

Input Voltage Waveform	Sinusoidal (utility or generator)
Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac±7V (UPS); 90Vac±7V (Appliances)
Low Loss Return Voltage	180Vac±7V (UPS); 100Vac±7V (Appliances)
High Loss Voltage	280Vac±7V
High Loss Return Voltage	270Vac±7V
Max AC Input Voltage	300Vac
Nominal Input Frequency	50Hz / 60Hz (Auto detection)
Low Loss Frequency	40±1Hz
Low Loss Return Frequency	42±1Hz
High Loss Frequency	65±1Hz
High Loss Return Frequency	63±1Hz
Output Short Circuit Protection	Circuit Breaker
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)
Transfer Time	10ms typical (UPS); 20ms typical (Appliances)

Hybrid Inverter

Rated Output Power	3.6KW	4.2KW	6.2KW
Output Voltage Waveform	Pure Sine Wave		
Output Voltage Regulation	230Vac±5%		
Output Frequency	50Hz		
Peak Efficiency	93%		
Overload Protection	3s@≥150% load; 5s@101%~150% load		
Surge Capacity	2* rated power for 5 seconds		
Nominal DC Input Voltage	24Vdc	48Vdc	
Cold Start Voltage	23.0Vdc	46.0Vdc	
Low DC Warning Voltage @ load < 50% @ load ≥ 50%	22.0Vdc 21.0Vdc	44.0Vdc 42.0Vdc	
Low DC Warning Return Voltage @ load < 50% @ load ≥ 50%	22.5Vdc 22.0Vdc	45.0Vdc 44.0Vdc	
Low DC Cut-off Voltage @ load < 50% @ load ≥ 50%	20.5Vdc 20.0Vdc	41.0Vdc 40.0Vdc	
High DC Recovery Voltage	32Vdc	62Vdc	
High DC Cut-off Voltage	33Vdc	63Vdc	
No Load Power Consumption	30W	35W	50W
INVERTER MODEL	4.2KW		
Max. PV Array Power	6200W		
Nominal PV Voltage	240Vdc		
PV Array MPPT Voltage Range	60Vdc~500Vdc		
Max. PV Array Open Circuit Voltage	500Vdc		
Max Charging Current (AC charger plus solar charger)	120Amp		