

KAC125DP2

Three Phase 125 kW Hybrid Inverter

STS

Integrated STS Design

100%

Backup Output

Features:

 Integrated STS Design with Backup and Genset Access

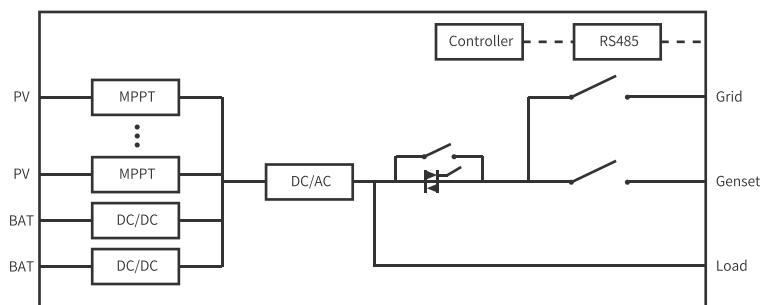
 Supports 100% Unbalanced Backup Output

 Transformerless Off-grid Design

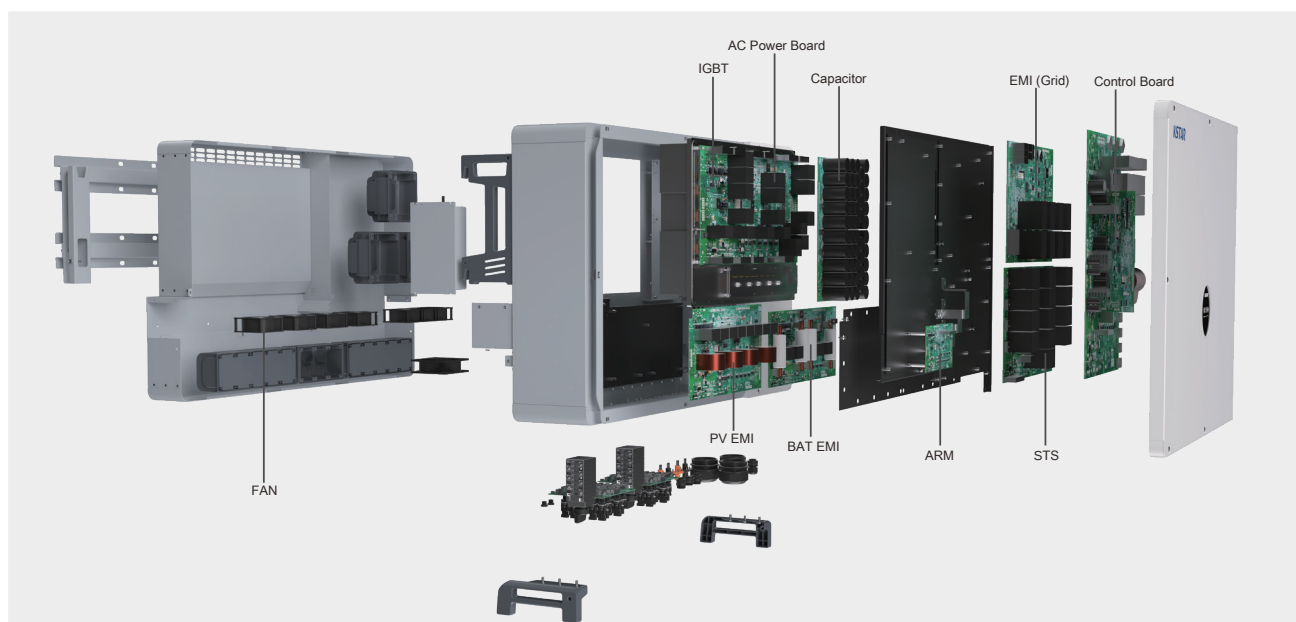
 High Efficiency Dc Coupling with 200% PVOversizing



SLD:



Exploded View:



Hybrid Inverter Parameters

PV Side		KAC125DP2
MPPT Voltage Range	250 ~ 950 Vdc (Max. 1000 Vdc)	
MPPT Rated Voltage	720 Vdc	
MPPT Rated Voltage (Full Load)	700 ~ 800 V	
Max. PV Power	250 kWp	
Number of MPPT / Strings per MPPT	8 / 2	
Max. Current per MPPT	45 A	
Battery Side		
Battery Voltage Range	200 ~ 950 Vdc	
Battery Rated Voltage Range	250 ~ 800 Vdc	
Max. DC Current	160 A (80 A x 2)	
Max. DC Power	125 kW	
Number of DC Inputs	2	
AC Side (On Grid)		
Nominal AC Output Power	125 kW	
Max. AC Output Power	125 kVA	
Rated AC Current	181 A	
Max. AC Current	250 A	
AC Rated Voltage / Voltage Range	230 / 400 Vac; 220 / 380 Vac; 3L+PE+N; -15% ~ +10%	
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz (±5 Hz)	
THDi	< 3% (100% Load)	
Adjustable PF Range	-0.8 (Lagging) ~ 0.8 (Leading)	
Backup Output		
Nominal AC Voltage	230 / 400 V; 220 / 380 Vac; 3L+PE+N	
THDv	< 3% (Rated Power)	
Nominal Grid Frequency / Frequency Range	50 Hz / 60 Hz	
Nominal AC Output Power	125 kW	
Max. AC Output Power (Single-phase)	50 kW	
Max. Output Current	220 A	
Genset Input		
Max. Input Current	220 A	
Efficiency		
Max. Efficiency	98%	
Protection		
Reverse DC Connection Protection	Yes	
Anti-Islanding Protection	Yes	
Over-Temperature Protection	Yes	
Grid Monitoring / Earthing Fault Detection	Yes	
Insulation Monitoring	Yes	
DC / AC Surge Protection	DC Type II; AC Type II	
AFCI	Optional	
General Parameters		
Dimensions (W x H x D)	635 x 1100 x 330 mm	
Weight	> 95 kg	
Topology	Transformerless	
IP Protection	IP65	
Operation Temperature Range	-25 ~ 60°C (> 45°C Derating)	
Operation Humidity Range	0 ~ 100% (No Condensing)	
Cooling Method	Intelligent Air Cooling	
Max. Operation Altitude	4000 m (> 3000 m Derating)	
Communication Port	RS-485 / CAN	