

STABIMATIC®

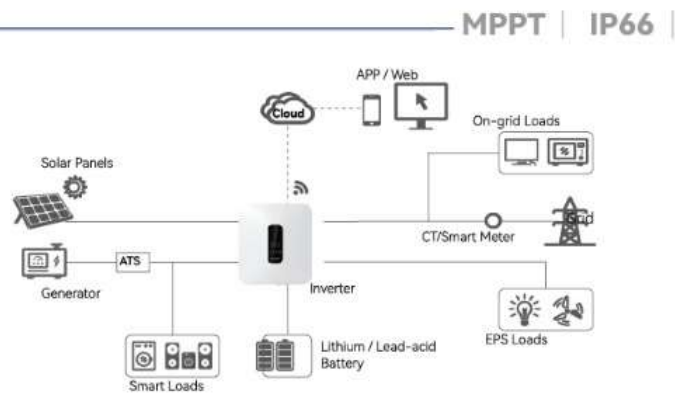
STB-PV-9000

- Wide MPPT Range
- 2 MPPT trackers
- Type II SPD both on DC&AC side
- 19A MPPT input current per string
- IP66 protection level
- Integrated and concise design



SOLAR Hybrid Inverter Single Phase

System Diagram



SCAN ME

STABIMATIC Co.Ltd, UK

Model	STB-PV-9000	STABIMATIC®
PV Input		
Max. PV Input Power(kW)		9
Max. PV Open Circuit Voltage(V)		550
MPPT Range@Operating Voltage(VDC)		80-520
Full Power MPPT Voltage Range(VDC)		250-500V
Start-up Voltage(VDC)		90
Max. Input Current per MPPT(A)		19/19
Max. Short-circuit Current(A)		25/25
MPPT Trackers/Strings per Tracker		2 / 1
Nominal Input Voltage(V)		360
AC Output(On-Grid)		
Nominal Output Power to Grid(kW)		6
Max. Apparent Power to Grid(kVA)		6
Max. Apparent Power from Grid(kVA)		6
Max. Apparent Current from Grid(A)		26.1
Nominal Output Current from Grid(A)		26.1
Max. Output Current to Grid(A)		26.1
Nominal Voltage/Frequency		230V(176V-280V), 50/60Hz, L+N+PE
Adjustable Power Factor		0.8leading-0.8lagging
THDI		<2%
AC Output(BackUp)		
Nominal Output Power(kW)		6
Max. Apparent Power(kVA)		6
Nominal Output Current(A)		26.1
Max. Output Current(A)		26.1
Nominal Voltage/Frequency		230V(176V-238V), 50/60Hz, L+N+PE
Automatic Switch Time(ms)		<20
THDu		<2%
Overload Capacity		110%,10s /130%,3s /150%,50ms
Efficiency		
Max. Efficiency		96.65%
Europe Efficiency		97.50%
MPPT Efficiency		99.00%
Max. Battery Charge/Discharge Efficiency		94.60%
Battery		
Battery Voltage Range(V)		40-60
Recommended Battery Voltage(V)		48
Max. Charging Voltage(V)		60
Max. Charging/Discharging Current(A)		120/120
BatteryType		Lithium and Lead Acid Battery
Protection		
DC Switch		Yes
DC Reverse Polarity Protection		Yes
DC/AC Surge Protection		Type II/Type II
AC Overvoltage Protection		Yes
AC Short-circuit Protection		Yes
Ground Fault Monitoring		Yes
Anti-islanding Protection		Yes
Residual-current Monitoring		Yes
Insulation Resistance Monitoring		Yes
Peak/Valley Time Setting		Yes
General Data		
HMI		LCD & APP
BMS		RS485; CAN
EMS/Meter		RS485
Communication		WiFi/LAN
Ingress Protection		IP66
Operating Temperature Range		-25-60 °C
Relative Humidity		0-95%(Non-condensing)
Max. Operating Altitude		4000m(Derating above 3000m)
Cooling		Natural
Noise Emission		≤ 29dB
Dimensions(W*H*D)		485*525*225mm(without terminal and bracket)
Net Weight(kg)		24
Self-consumption(W)		<15
Standard Compliance		
Safety Regulation		IEC/EN62109-1/-2
EMC		IEC/EN61000-6-1/-2/-3/-4
GridRegulation		IEC61727; IEC62116; Europe: EN50549; Belgium: C10/11; Spain: UNE217002; Italy: CEI 021; South Africa: NRS 097

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