

Smart Energy

Single phase Hybrid
7.6 / 8 / 10 / 11 / 12

The ideal solution for
new installations.



Max MPPT Eff.
up to 99%



Compatible with 48V
storage batteries

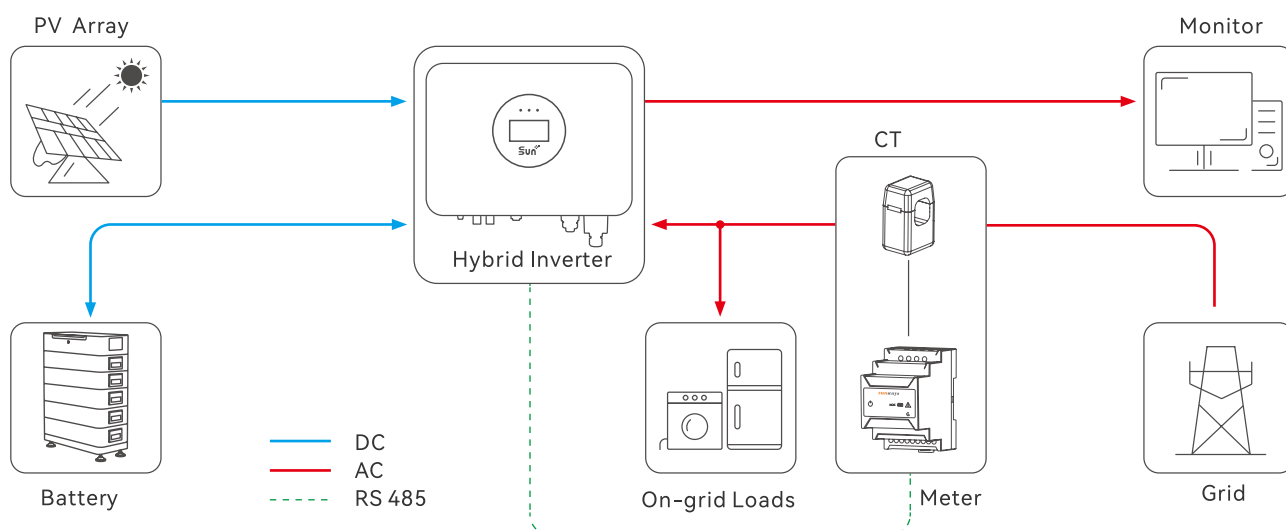


Diesel generator
connection supported



Fast and easy
data checking

powered by
suncoreOS



Battery Input Data

Battery Type	Lead-acid/lithium-ion battery					
Battery Voltage Range	[V]	40~60				
Max. Charging Current (A)	[A]	190	190	220	235	250
Max. Discharging Current (A)	[A]	190	190	220	235	250
PV String Input Data						
Max. PV Access Power	[W]	15200	16000	20000	22000	24000
Max. photovoltaic input power	[W]	12160	12800	16000	17600	19200
Max. PV Input Voltage	[V]	500				
Start-up Voltage	[V]	125				
Start-up Voltage	[V]	150~425				
Rated PV Input Voltage	[V]	370				
Max. Operating PV Input Current	[A]	26+26		26+26+26		
Max. Input Short-Circuit Current	[A]	44+44		44+44+44		
No. of MPPT trackers/ No. of Strings MPP trackers		2/2+2		3/2+2+2		

AC Input/Output Data

Rated AC Input/Output Active Power	[W]	7600	8000	10000	11000	12000
Max. AC Input/Output Apparent Power	[VA]	8360	8800	11000	12100	13200
Rated AC Input/Output Current	[A]	34.6/33.1	36.4/34.8	45.5/43.5	50/47.9	54.6/52.2
Max. AC Input/Output Current	[A]	34.6/33.1	36.4/34.8	45.5/43.5	50/47.9	54.6/52.2
Max. Continuous AC Passthrough	[A]	50		60		
Peak Power (off-grid)	[W]	2 times of rated power, 10s				
Power Factor Adjustment Range		0.8 leading to 0.8 lagging				
Rated Input/Output Voltage	[V]	220/230 0.85Un~1.1Un				
Rated Input/Output Grid Frequency	[Hz]	50/45~55, 60/55~65				
Grid Connection Form		L+N+PE				
Total Current Harmonic Distortion THDi		<3% (of nominal power)				
DC Injection Current		<0.5% In				

Efficiency

Max. Efficiency	[%]	97.60%				
Euro Efficiency	[%]	96.50%				
MPPT Efficiency	[%]	>99%				

Communication

Communication Interface	RS485/CAN/Dry contact				
Communication Method	GPRS/WIFI/Bluetooth/4G/LAN(Optional)				

General Data

Operating Temperature Range	[°C]	-40 to + 60, >45°C Derating				
Permissible Ambient Humidity		0-100%				
Permissible Altitude		2000m				
Noise	[dB]	<45				
Ingress Protection	[IP]	IP 66				
Overvoltage category		OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD)	[mm]	560×410×230 (Excluding connectors and brackets)				
Weight	[kg]	33.5				
Type of Cooling		Intelligent air cooling				

Warranty

5 Years/10 Years

Grid Regulation

EN50549,IEEE 1547:2018, IEEE 1547.1:2020 , UL 1741SB, Rule21, NTS Type A, UNE 217001 (ITC-BT-40, RD 244)

Safety/ EMC Standard

IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2,EN 62920

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