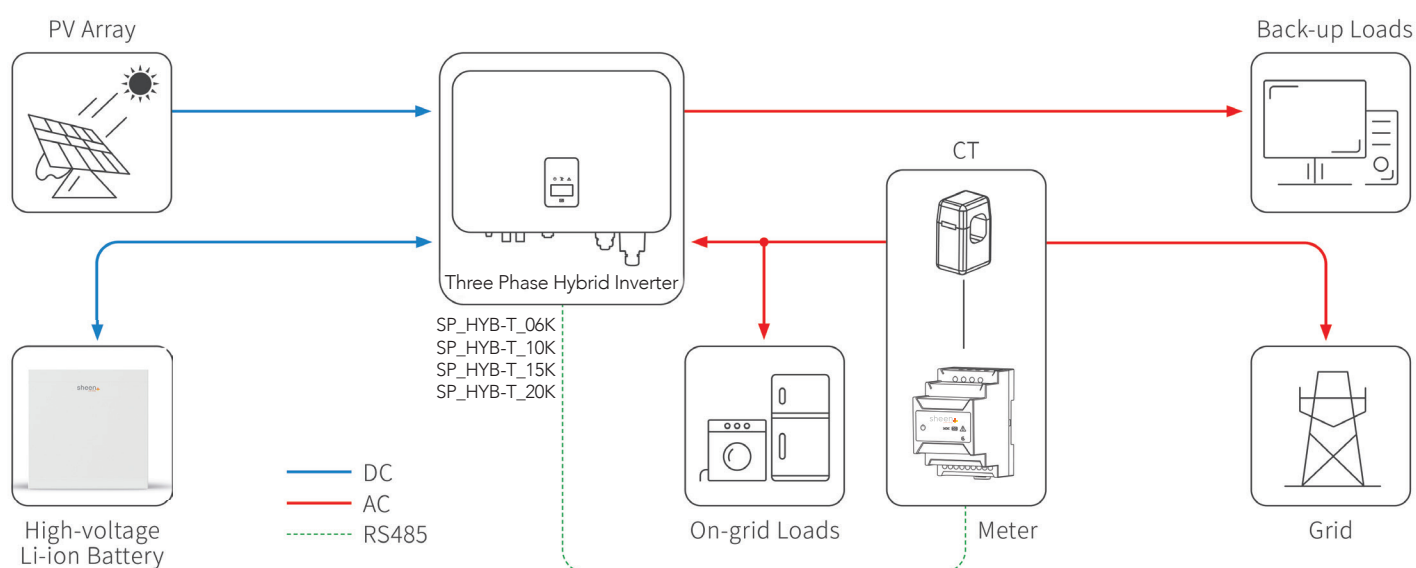
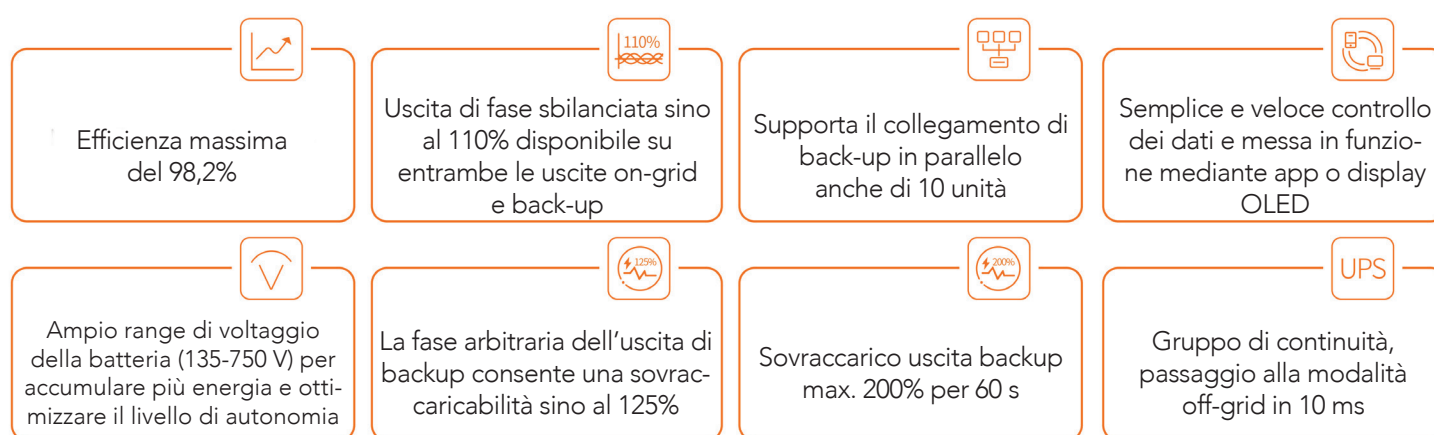




SHEENPLUS TRIFASE INVERTER IBRIDO CON DUE MPPT SP_HYB-T_06K~20K



Model	SP_HYB-T_06K	SP_HYB-T_10K	SP_HYB-T_15K	SP_HYB-T_20K
PV Input Data				
Max. Input Power	9.0 kW	15.0 kW	22.5 kW	30.0 kW
Start-up Voltage	135 V	135 V	135 V	135 V
Max. DC Input Voltage	1.000 V*	1.000 V	1.000 V	1.000 V
Rated DC Input Voltage	620 V	620 V	620 V	620 V
MPPT Voltage Range	120-950 V	200-950 V	200-950 V	200-950 V
No. of MPP Trackers	2	2	2	2
No. of PV Inputs	1/1	2/2	2/2	2/2
Max. DC Input Current	15/15 A	30/30 A	30/30 A	30/30 A
Max. DC Short-circuit Current	20/20 A	40/40 A	40/40 A	40/40 A

Output Data (Grid)				
Rated Output Power	6.0 kW	10.0 kW	15.0 kW	20.0 kW
Max. Output Apparent Power	6.6 kVA	11.0 kVA	16.5/15.0 ¹⁾ kVA	22.0 kVA
Max. Input Apparent Power**	12.0 kVA	20.0 kVA	30.0 kVA	30.0 kVA
Max. Charging Power of Battery	6.0 kW	10.0 kW	15.0 kW	20.0 kW
Rated AC Voltage	3L/N/PE; 220/380 V; 230/400 V; 240/415 V			
Rated AC Frequency	50/60 Hz			
Max. Output Current	10 A	16.5 A	25.0/21.7 ²⁾ A	33.5 A
Power Factor	0.8 leading ...0.8 lagging			
Max. Total Harmonic Distortion	< 3 % @Rated Output Power			
DCI	< 0.5 %In			

Output Data (Back-Up)				
Rated Output Voltage	6.0 kW	10.0 kW	15.0 kW	20.0 kW
Max. Output Apparent Power	6.6 kVA	11.0 kVA	16.5 kVA	22.0 kVA
Max. Output Current	10.0 A	16.5 A	25.0 A	33.5 A
UPS Switching Time	< 10 ms			
Rated Output Voltage	3/N/PE; 220/380 V; 230/400 V; 240/415 V			
Rated Output Frequency	50/60 Hz			
Peak Output Apparent Power***	12.60 s kVA	20.60 s kVA	25.60 s kVA	25.60 s kVA
Voltage Harmonic Distortion	< 3 % @Linear Load			

Battery				
Battery Type	Lithium Battery (with BMS)			
Battery Voltage Range	135-750 V			
Max. Charge/Discharge Current	25/25 A	40/40 A		

Efficiency				
Max. Efficiency	98.1 %	98.4 %	98.4 %	98.4 %
European Efficiency	97.3 %	97.5 %	97.5 %	97.5 %

General Data	
Over Voltage Category	PV: II; Main III
Size (WxHxD)	534x418x210 mm
Weight	26.0 kg (06 K); 28.0 kg (10 K); 31.0 kg (15+20 K)
Protection Degree	IP65
Standby Self-consumption	< 15 W
Topology	Transformerless
Operating Temperature Range	-30 °C ~ 60 °C
Relative Humidity	0~100 %
Operating Altitude	3.000 m (> 3.000 m derating)
Cooling	Natural Convection (06 K); Smart Fan (10/15/20 K)
Noise	<25 dB (06 K); <40 dB (10/15/20 K)
Display	OLED & LED
Communication	CAN; RS485; WiFi/LAN (Optional)
Compliance	IEC/EN 62109, IEC/EN 61000, EN50549-1, TOR Generator Type A, VDE-AR-N-4105

Protection	
DC Reverse Polarity Protection	Integrated
Battery Input Reverse Connection Protection	Integrated
Insulation Resistance Protection	Integrated
Surge Protection	Integrated
Over-temperature Protection	Integrated
Residual Current Protection	Integrated
Islanding Protection	Integrated
AC Over-voltage Protection	Integrated
Overload Protection	Integrated
AC Short-circuit Protection	Integrated

* Max. operating DC voltage is 950 V, max. withstanding DC voltage ist 1.000 V.

** Max. apparent power from the grid means the maximum power imported from the utility grid used to satisfy the backup loads and chance the battery.

*** The output power will exceed the rated value only when the PV array is sufficient, and the duration of the overload is related to the overload power.

1) AS 4777.2: 15.0 kVA; 2) AS4777.2: 21.7A