



PV OFF-GRID INVERTER Single Phase

STS-HYM-4815120P

INVERTER MODE

Rated Output Power	12000VA/12000W
DC Input	48VDC, 277.8A
AC Output	230VAC, 50/60Hz, 52.2A, 1 ϕ
Power Factor Range	0.9 lead-0.9 lag
Output Voltage Waveform	Pure Sine Wave
Output Voltage Regulation	230Vac $\pm$ 5%
Peak Efficiency	93%
Overload Protection	100ms@ $\geq$ 180% load; 5s@ $\geq$ 120% load; 10s@105%~120% load
Surge Capacity	2 * rated power for 5 seconds

AC CHARGER MODE

AC Input	230VAC, 50/60Hz, 60A, 1 ϕ
DC Output	54Vdc
Max.	200A
Default	30A
AC Output	230VAC, 50/60Hz, 52.2A, 1 ϕ
Overcharge Protection	63Vdc

Solar Input

Rated Power	7500W x 2
Max. PV Array Open Circuit Voltage	500Vdc
PV Array MPPT voltage range	90Vdc ~ 450Vdc
Max. Input Current	27A x 2 (Max. 45A)
Max. Charging Current	200Amp
Start-up Voltage	80V +/- 5Vdc

GENERAL

Safety Certification	CE
Operating Temperature Range	-10°C to 50°C
Storage temperature	-15°C ~ 60°C
Humidity	5% to 95% Relative Humidity (Non-condensing)
Dimension (D*W*H)	147.4 x 432.5 x 553.6 mm
Net Weight	18.4 kg

PARALLEL

Max parallel numbers	6
Circulation Current under no load condition	Max 2A
Power Unbalance Ratio	<5% @ 100% Load
Parallel communication	CAN
Transfer time in parallel mode	Max 50ms

Note : Parallel feature will be disabled when only PV Power is available.

LINE MODE

Nominal Input Voltage	230Vac
Low Loss Voltage	170Vac $\pm$ 7V (UPS); 90Vac $\pm$ 7V (Appliances)
Low Loss Return Voltage	180Vac $\pm$ 7V (UPS); 100Vac $\pm$ 7V (Appliances)
High Loss Voltage	280Vac $\pm$ 7V
High Loss Return Voltage	270Vac $\pm$ 7V
Max AC Input Voltage	300VAC
Max AC Input Current	70A
Nominal Input Frequency	50Hz/ 60Hz (Auto detection)
Ouput Short Circuit Protection	Line Mode : Circuit Breaker (70A) Battery Mode : Electronic Circuits
Efficiency (Line Mode)	>95% (Rated R load, battery full charged)
Transfer time	10ms typical (UPS); 20ms typical (Appliances)