

# 10KW THREE PHASE HYBRID INVERTER

## FEATURES

-  Max. efficiency 97.8% with ultra-low start-up voltage
-  Support multiple inverters in parallel, maximum of 10 inverters
-  Fast and dynamic MPPT and industry leading DC voltage range
-  Intelligent EMS function can use solar power 24/7 and lower you energy bills
-  IP65 Protection
-  7 years standard warranty with extension options to 15 years.
-  Remote upgrade



**STEALTH ENERGY**  
THE AFFORDABLE ENERGY THAT STANDS BY YOU

## Product parameters

Input(DC)	ST-INV_T10.0	ST-INV_T8.0	ST-INV_T6.0	ST-INV_T5.0
Max. PV power [Wp]	15000	12000	9500	7500
Max. DC input voltage [V]	1000	1000	1000	1000
Rated DC voltage [V]	620	620	620	620
Max. input current [A]	16/16	16/16	16/16	16/16
Max. short circuit current [A]	21.2/21.2	21.2/21.2	21.2/21.2	21.2/21.2
MPPT voltage range [V]	200-850	200-850	200-850	200-850
Start-up voltage [V]	180	180	180	180
Number of MPPTs	2(1/1)	2(1/1)	2(1/1)	2(1/1)

### Input(AC)

Max. AC power [VA]	15000	15000	13000	10000
Max. AC current [A]	22.7	22.7	19.7	15.2
Rated grid voltage [V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60

### Output(AC)

Rated output power [VA]	10000	8000	6000	5000
Rated grid voltage [V]	400/230;380/220	400/230;380/220	400/230;380/220	400/230;380/220
Rated grid frequency [Hz]	50/60	50/60	50/60	50/60
Max. AC current [A]	15.9	13.5	10.5	8.5
Power factor	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging	0.8 leading ~ 0.8 lagging
THDi[%]	<3	<3	<3	<3

### EPS Output (with battery)

EPS rated Max. power[VA]	10000	8000	6000	5000
EPS rated voltage [V], Frequency [Hz]	400/230;380/220;50/60	400/230;380/220;50/60	400/230;380/220;50/60	400/230;380/220;50/60
EPS Max. current[A]	15.9	13.5	10.5	8.5
THDv [%]	<3	<3	<3	<3

### Efficiency

MPPT efficiency[%]	99.9
European efficiency[%]	97
Max. efficiency[%]	97.8
Battery charge and discharge efficiency[%]	97.5/96.5

### Battery

Battery voltage range [V]	180-600
Max. charge/discharge current [A]	25
Communication interface	CAN/RS485
Electronic protection	YES

### Protection

Over-voltage protection/Low-voltage protection	YES
Ground fault monitoring	YES
Grid monitoring	YES

### Standard and Certification

Safety	IEC62109-1/-2
EMC	IEC61000-6-2/IEC61000-6-3
Grid regulation	VDE-AR-N 4105 / AS4777 / EN50549-1 / CEI 0-21 G98/G99/UNE217001/UNE217002/NTS/RD647 RD413/RD1699

### Environmental Limit

Ingress protection	IP65
Operating temperature range [°C]	-25~60 (derating at >45)
Altitude [m]	<2000
Humidity [%]	0~100 (RH)
Storage temperature (°C)	-25~60
NI[dB]	<30

### General Data

Dimensions (W*H*D) [mm]	457*654*228
Weight [kg]	28
Cooling Method	Natural
Topology	Non-isolated
Interfaces	Meter/WIFI/DRM/BMS
Warranty [year]	7-15

### Power Consumption

Night power consumption [W]	<25 for hot standby,<3 in cold standby
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