

ETS Hybrid Charger & Inverter (Three-phase)

ETS 10K~60K

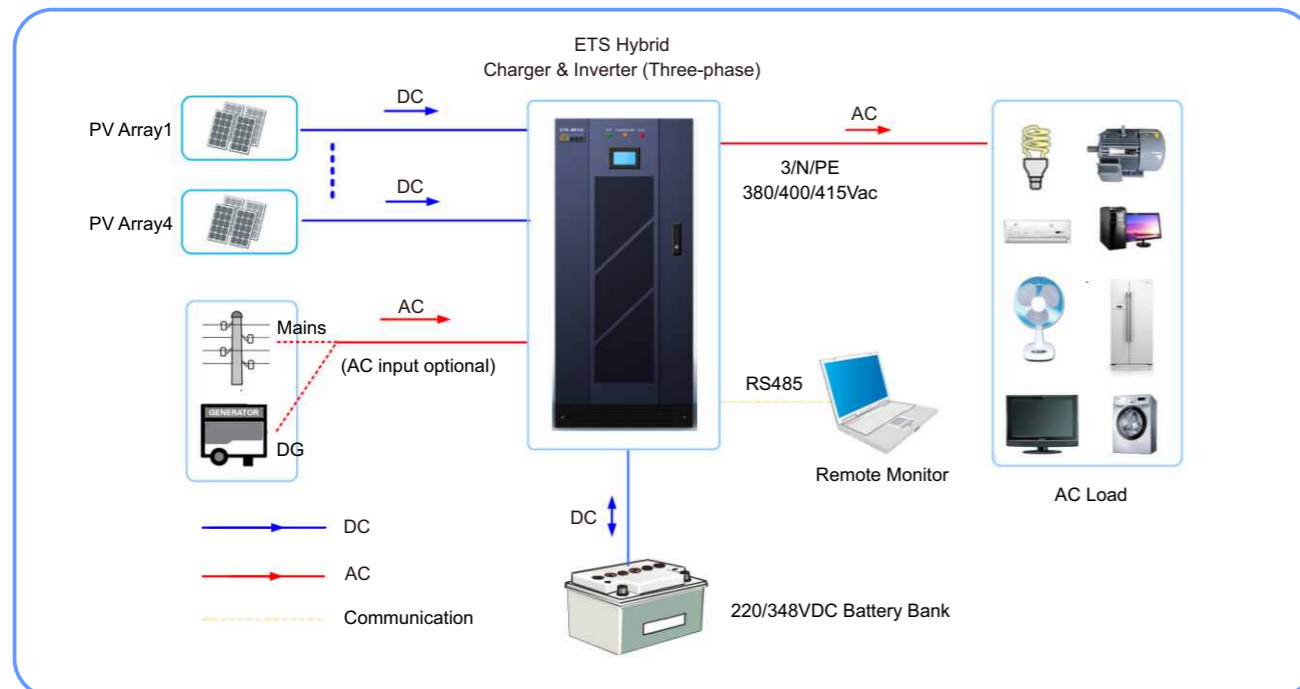
Features

- Built-in MPPT solar controller, maximize the utilization of solar panels, utilization ratio >95%
- Integrated design with controller, inverter and isolated technique
- Solar controller modular design, hot plug function, flexible configuration, easy capacity expansion
- Pure sine wave output, output isolated transformer, safe and stable
- It supports mains/generator input (optional)
- Three phase AC output, support 100% unbalanced load
- Intelligent battery management and temperature compensation function
- City power/diesel generator input interface (optional) **SC22050 / SC35040**
- LCD display + LED status indicator
- Complete protections
- 92% system efficiency
- Strong environment adaptability



Description

- ETS series three-phase off-grid inverter adapts integrated design of solar controller, inverter and isolated transformer. The controller adapts MPPT technology and intelligent battery management design which is very efficient and smart; integrated pure sine wave inverter and low frequency isolated transformer make it with excellent overload performance, suitable for a variety of electrical appliances. It supports mains/generator input (optional), take advantages of old diesel generators, saving initial investment and operation maintenance cost.
- ETS series controller adapts modular design with flexible configuration; the inverter output covers 10kVA~60kVA, supply power for places without city power e.g. remote areas, pastoral areas, islands, communication base stations, bring customer the optimized social, economical and environmental benefits.



Technical data

Model	ETS 10K	ETS 20K	ETS 30K	ETS 40K	ETS 50K	ETS 60K
DC Input						
PV voltage range (VDC)	250~450			420~650		
PV max. voltage (VDC)	460			660		
Recommended working rated voltage (Vmpp) (VDC)	330			480		
Rated power (kW)	30 (1~3pcs*10kW solar controller module)			60 (1~4pcs*15kW solar controller module)		
AC Input						
AC Input Voltage range (V)	380/400/415±25%					
AC Input Voltage frequency (Hz)	50/60±5%					
AC Output						
Output voltage	3/N/PE, 380/400/415Vac±2%					
Output wave	Pure sine wave					
Rated output power	10kVA/8kW	20kVA/16kW	30kVA/24kW	40kVA/32kW	50kVA/40kW	60kVA/48kW
Crest factor	3					
Overload capacity	105%~110%, 10mins; 110%~125%, 1min; >125%, 10s					
Voltage THD	THDU<3%, linear load; THDU<5%, nonlinear load					
Isolation	Low frequency transformer					
Battery						
Rated DC bus voltage (VDC)	220/192			348		
Battery type	Lead-acid battery					
General Parameters						
Operating temperature range (°C)	-20~+50 (>50°C derating)					
Relative humidity in operation	0~95% (non-condensing)					
Max. operating altitude (m)	5000 (>2000m derating)					
Display	LCD+LED					
Communication	RS485, dry contact					
Protections	Input over/under voltage, output over/under voltage, overload, short circuit, over temperature, reverse polarity, lightning surge protection					
Ingress protection rating	IP20					
Dimension (W*D*H mm)	550*600*1450			600*600*1600		
Weight [without PV module (kg)]	210	230	250	320	350	380
Built-in solar control module						
Model	SC22050			SC35040		
Control type	MPPT					
MPPT accuracy	>99.5%					
Input voltage range (VDC)	250~450			420~650		
Max. input voltage (VDC)	460			660		
Max. input power (kW)	11			16		
Max. input current (A)	45			35		
Output voltage range (VDC)	192~264 (220VDC)/168~230 (192VDC)			310~420		
Max. output current (A)	50			40		
Charging efficiency	≥98%					
Dimension (D*W*H mm)	436*335*84.5					
Weight (kg)	11					