

ETS Hybrid Charger & Inverter (Three-phase)



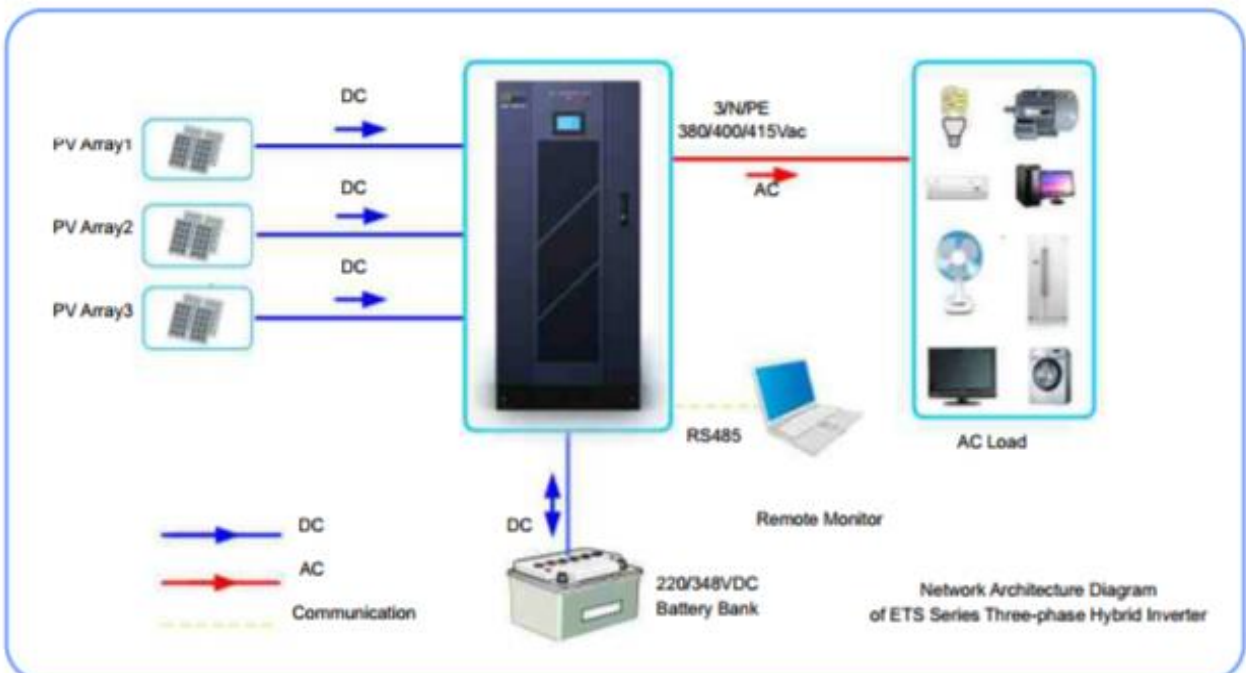
ETS 10kVA~60kVA

Features

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

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.
- 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 10kVA	ETS 20kVA	ETS 30kVA	ETS 40kVA	ETS 50kVA	ETS 60kVA
DC Input						
PV voltage range (VDC)	250~420			420~650		
PV max. voltage (VDC)	460			660		
Recommended working rated voltage (Vmpp) (VDC)	330			480		
Rated power (kW)	30 (1~3pcs*10kW solar control module)			60 (1~4pcs*15kW solar control module)		

AC Output						
Output voltage	3/N/PE, 380/400/415V \pm 2%					
Output wave	Pure sine wave					
Rated output power (kVA)	10	20	30	40	50	60
Crest factor	3					
Power factor	0.8					
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			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)	600*550*1300		600*600*1420		600*600*1450	
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)	280~450			440~650		
Max. input voltage (VDC)	460			660		
Max. input power (kW)	11			16k		
Max. input current (A)	45			35		
Output voltage range (VDC)	192~264			310~420		
Max. output current (A)	50			40		
Charging efficiency	≥98%					
Dimension (D*W*H mm)	436*335*84.5					
Weight (kg)	11					