

CUSTOMIZABLE C&I ESS



Highly integrated,easy to deploy,shorten the installation and debugging time.



Internal integration of optical storage PCS equipment,more unified bus control, increased system stability.



Easy expansion,support PV flexible configuration.



EMS functions are integrated into hybrid inverter, improve the economic benefits of the system.



High Capacity Battery Pack

MODEL	HT-640/280R/HV	HT-768/280R/HV
Nominal Voltage	640V	768V
Cell model/Configuration	3.2V280Ah(EVE)200S3P	3.2V280Ah(EVE)240S2P
Capacity(Ah)	280AH	280AH
Rated Energy(KWH)	537.6KWh	430.05KWh
Weight(Approx)(KG)	4050kg	3300kg
Dimension(WDH)(mm)	1732*950*3300mm	1992*950*2200mm
Voltage Range(Vdc)	580-710V	695-840V
MaxCharge/DischargeCurrent(A)	140A-140A	
Scalability	Up to 10 parallel	
Communication	RS485(B)-BAT RS485(A)-PC,Canbus-Inverter	
Cycle Life	≥6000cycles@25℃,90%DOD,60%EOL	
Design Life	≥15 Years(25℃)	
Protection	BMS,Breaker	
Operating Temperature (℃)	Charge:-10℃~50℃; Discharge:-20℃~50℃	
Altitude (m)	≤2000	
Humidity	≤95%(Non-condensing)	

High Power PCS Specifications

MODEL	HT-PCS0150	HT-PCS0250
AC(grid-connected)		
Apparent power(KW)	165KW	275KW
Roted power(AC)	150KW	250KW
Voltage range (V)	400V/320-460V	
Roted frequency	50Hz/60Hz(Auto sensing)	
PF	-1 cap~lind	
THDI	< 3%	
Grid Type	3W+N+PE	
AC (off-grid)		
Apparent power (KW)	165KW	275KW
Roted power	150KW	250KW
Roted voltage	400V	
Roted frequency	50/60Hz	
THDI	≤1%linear: ≤5%On linear	
Overload capability	110%,long	
PV Input (DC)		
Max PV power(KW)	120/180/240	300/360
Max .PV open-circuit voltage(V)	1000V	
PV mppt voltage range(V)	250-850VDC	
General data		
Dimension(mm)	1200*800*2050	(600*720*2050)*1 2800*800*2050
Weight(kg)	1250/1280/1310	1980/2010
Environmental Temperature	-25-55℃	
Relative humidity	0-95%non-condensing	
Protection degree	IP20	
Noise emission(dB)	≤70dB	
Cooling	Forced-air	
Display	Touch screen LCD	
Communication interface	TCP/IP/RS485	
Certification	EN62109-1/-2,EN62477-1,EN61000-6-2,EN61000-6-4,South Africa NRS097-2-1;2017,Pakistan&India IEC61727,IEC62116,IEC61683	
Battery(DC)		
Battery voltage range(V)	420~850	
Max.charging power(kw)	120/180/240	300~360

TG-PCS PV and battery configuration principles:

- ▶ Boost mode configuration principle-open voltage at low temperature at the limit of PV installation*number of PV panels in series≤ the lowest voltage of the battery;
- ▶ Buck mode configuration principle, the maximum power operating voltage at the extreme high temperature of PV installation ≤ the highest voltage of the battery;
- ▶ The PV and battery configurations of TG-PCS must comply with the above configuration principles.