



All-in-one 3-10kW Single Phase



FEATURES

150%

Rated load power under off-grid conditions is up to 150% (5kWh off-grid can realize 7.5kWh rated load power)

**>10
Hours**

Continuous off-grid full load for over 10 hours

130%

More than 130% cooling capacity compared to traditional

<30W

Anti-reflux power accuracy is less than 30W

99%

Aftersales contentment of APP&Web is over 99%

**5120
/6140
/14336**

5120/6140/14336Wh battery capacity

199\$

Built-in DC breaker, reducing \$199 installation cost

>97%

Discharging efficiency of battery is over 97%



Technical Specifications

Model	CTE- INVT-1P-3kW	CTE- INVT-1P-4kW	CTE- INVT-1P-5kW	CTE- INVT-1P-6kW	CTE- INVT-1P-8kW	CTE- INVT-1P-10kW
Input (DC)						
Max DC power	4500W	6000W	7500W	9000W	12000W	14000W
Max DC voltage	500 Vd.c.					
MPPT voltage range	100...450 Vd.c.					
Rated PV input voltage	360V(100-500V)					
Full load DC voltage range	200-425V					
PV input current	13A+13A			26A+26A		
Max PV ISC	25A+25A			50A+50A		
Number of MPPT trackers	2					
Number of input string	1+1			2+2		
Battery Input						
Battery type	Li-ion					
Battery voltage range	40-60V					
Max dis/charge current	80/80A	100/100A	120/120A	150/150A	200/200A	210/210A
External temperature sensor	Yes					
Charging curve	3 Stages/Equalization					
Charge strategy for Li-thium battery	Self-adaption to BMS					
Output(AC)						
Rated AC output active power	3000VA	4000VA	5000VA	6000VA	8000VA	10000VA
Max AC apparent power(AC Output)	3300VA	4400VA	5500VA	6600VA	8800VA	10500VA
AC output rated current	13.1A	17.4A	21.7A	26.1A	34.8A	43.5A
Max AC output current	15A	20A	25A	28.8A	38.5A	45.6A
Max continuous AC passthrough	35A			50A		
Peak power(off frid)	2 times of rated power, 10s					
Power factor adjustment range	0.8 leading to 0.8 lagging					
Power factor	1					
Output frequency and voltage	50/60Hz; L/N/PE 220/230 Vac					
Grid type	Single phase					
Total harmonic distortion(THD)	<0.5%In					
Efficiency						
Max conversion efficiency	97.6%			97.8%		
European efficiency	96.5%			96.6%		
MPPT efficiency	99.9%					
Safety and Protection						
Integrated	Anti-islanding protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Output Shorted Protection, Surge Protection					
Over voltage category	DC Type II/AC Type III					
General Parameters						
Dimension (L*W*H)	600*205*560mm					
Weight	29kg					
Operating temperature range °C	-40°C...+60°C, >45 °C derating					
Degree of protection	IP54					
Cooling concept	Natural convection					
Display	LCD					
Installation Style	Wall/Ground mounting					
Communication	Standard WiFi;GPRS/LAN(optional)					
Warranty	Standard 5 years; 7/10 years optional					
BMS communication	CAN/RS485					
Noise	<30dB					
Certificates and Approvals						
CQC, VDE-AR-N4105, IEC61727, IEC62116, VDE0124-AR-N0124, EN50549, IEC62109, IEC62477						

The range of output voltage and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice.



Technical Specifications

Model	LFP 5.12kWh	LFP 6.14kWh	LFP 14kWh
Total Energy*	5.1kWh	6.14kWh	14.3kWh
Usable Energy(DC)*	4.6kWh	5.5kWh	12.9kWh
Nominal Dis-/Charge Power	3.0kW	3.7kW	8.6kW
Peak Power(Only Discharge)	6kW for 3s	6kW for 3s	10.8kW for 3s
Constant Current(Only Discharge)	80A	96A	224A
Voltage	48~56Vd.c	48~56Vd.c	48~56Vd.c
Nominal Voltage	51.2Vd.c	51.2Vd.c	51.2Vd.c
Nominal Current	60A	72A	168A
Max Charge Voltage	57.6Vd.c	57.6Vd.c	57.6Vd.c
Weight	45kg	69kg	109kg
Dimension(mm)(L*W*H)	600*205*480mm	600*205*480mm	600*205*680mm
Max Recommended DOD	90%		
Operating Condition	Indoor		
Operating Temperature	Charge	From 0~50℃	
	Discharge	From -10~55℃	
WIFI Frequency Range	2400MHz~2483MHz		
Humidity	<60%(No condensed water)		
Over Voltage Category	II		
Cooling Type	Natural cooling		
Case Material	Metal		
Color	Black or White		
Installation	Wall mounting/Ground Installation		
IP Rating	IP 54		
Protective Class	I		
Max Connection Number	2P	2P	1P
Warranty	10 years		
Life Span	>15 years		
Communication	CAN/ RS485		
Protection Mode	Dual hardware protection		
Battery Protection	Over-current/Over-voltage/Short circuit/ Under-voltage/Over temperature		
Safety	Cell UL 1973		
	CE/TUV		
Hazardous Material Classification	9		
Transportation	UN 38.3		

Testing conditions based on temperature 25℃ at the beginning of life.

*Total Energy/Usable Energy measured under specific conditions from CTE 0.2C CC-CV