

CHIEF SERIES

Three-Phase Hybrid High Voltage Inverter



RELIABLE POWER SUPPLY

EPS output power goes up to 12kw



LONG LIFESPAN

Market-leading 10-year warranty



SMART ENERGY MANAGEMENT

UPS switch time within 10ms when the grid off



HIGH PROTECTION

IP66 (dustproof and waterproof)



Model	CHIEF-5.0-T-A	CHIEF-8.0-T-A	CHIEF-10.0-T-A	CHIEF-12.0-T-A
PV Input				
Max. PV input Voltage [V]			1000	
MPPT Voltage Range [V]			200-750	
Max. DC Input Power [W]	7500	12000	15000	18000
Start-up Voltage [V]			200	
Rated Operating Voltage [V]			400	
Max. Input Current [A]			15	
Isc PV[A]			20	
NO.of MPP Trackers			2	
NO.of Strings per MPP Tracker			1	
Battery				
Battery Voltage Range [V]			150-690	
Max. Charge/Discharge Current [A]			25	
Battery capacity [kWh]			3.84/7.68/11.52/15.36	
AC Input/Output				
Rated output Power [W]	5000	8000	10000	12000
Rated Apparent Power [VA]	5000	8000	10000	12000
Max. Apparent Power [VA]	5500	8800	11000	12000
Max. Apparent Power from Grid [VA]	10000	16000	16600	20000
Rated Voltage [V]			380/400	
Rated Frequency [Hz]			50/60 (±0.2%)	
Rated AC Current to Grid [A]	7.2	11.6	24.1	20
Rated AC Current from Grid [A]	14.4	23.2	14.4	28.8
Max. output fault current [A]			30(rms),42.42(peak)	
AC output Maximum output overcurrent protection [A]			30	
AC input power factor			[-0.8~0.8]	
AC output power factor			1[-0.8...+0.8 adjustable]	
THDi			<3%	
EPS Output (With Battery)				
Rated Apparent Power [VA]	5000	8000	10000	12000
Max. Output Power [W]	6000	9600	12000	14400
Max. Apparent Power [VA]	6000	9600	12000	14400
Rated Voltage [V]			380/400	
Normal Frequency [Hz]			50/60 (±0.2%)	
Rated Output Current [A]	8.7	13.9	17.4	20.9
Max. output fault current [A]			30(rms),42.42(peak)	
EPS output Maximum output overcurrent protection [A]			30	
Switch time [ms]			<10	
Power Factor			[-0.8~0.8]	
Efficiency				
PV Max Efficiency (%)			97.6	
PV Europe Efficiency (%)			97	
PV Max. MPPT Efficiency (%)			99.9	
Battery Charge by PV Max. Efficiency (%)			98	
Battery Discharge Efficiency (%)			96.7	
Protection				
Over/Under voltage protection			Yes	
DC isolation protection			Yes	
DC injection monitoring			Yes	
Residual current detection			Yes	
Anti- islanding protection			Yes	
Over load protection			Yes	
Battery Input reverse polarity protection			Yes	
PV reverse polarity protection			Yes	
Surge protection			Yes	
Over heat protection			Yes	
General Data				
Dimension(W/D/H)[mm]	[W:700;D:263;H=500(EPS Box)+n*300(Battery box),≤4]			
Net weight [kg]	[Inverter 30,Battery 35*n,2≤n≤4]			
Operation Temp °C	[-25~60]			
Relative Humidity (%)	0...95			
Altitude [m]	≤3000			
Ingress Protection	IP65			
Cooling	Natural			
Inverter Topology	Non-isolated			
Over voltage category	III (AC), II (DC)			
Protective class	Class I			
Active anti- islanding method	frequency shift			
Human Interface	LED/APP			
BMS Communication Interface	SPI			
Meter Communication Interface	RS485			
Noise Emission [dB]	<25			
Standby Power Consumption [W]	<5			

High Voltage LFP Battery



LONGE LIFESPAN

> 6,000 cycles backed by Ceeegsun
10-years authoritative warranty



FAST CHARGING & DISCHARGING

Compatible to charge/discharge at 0.5C and 1C,
but at 0.5C is recommended



HIGHLY COMPATIBLE

Compatible with UPS applications with on/off-grid
shifting times as low as 10 seconds



PEAK SHAVING

Discharge at time of peak demand to reduce
expensive demand charge



STRONG STABILITY

Multiple battery protections including communication, MOS,
2nd fault mandatory protection to enable overall full protection



UNIQUE SAFETY

Protection rating at IP65, cell-level independent fire-proof design,
fire-resistant material can be exposed to 1200 degrees Celsius flame



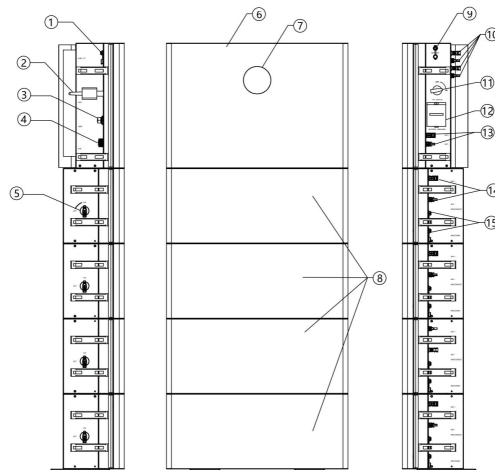
QUICK INSTALLATION

Plug-and play connection saves 40% of installation time



ARBITRAGE

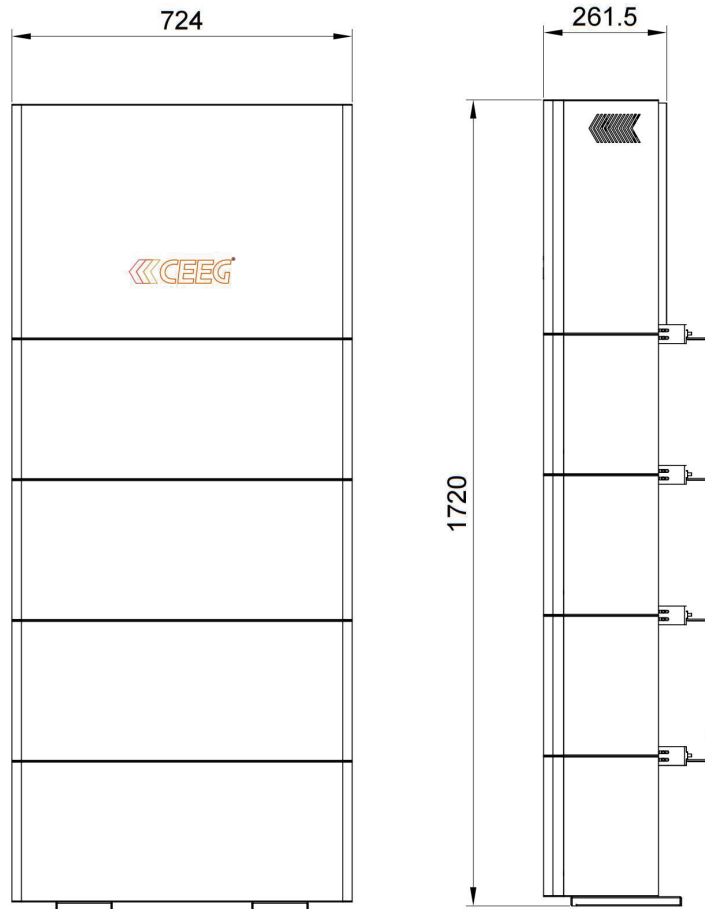
Carry out arbitrage by using peak and valley electricity
prices in different time periods



1. Grid CT interface
2. WIFI interface
3. Load
4. Grid
5. Battery switch
6. Hvbriid inverter
7. SOC display
8. PACK
9. BMS communication
10. PV input
11. PV switch
12. Battery Breaker
13. Battery input
14. PACK input
15. BMS communication

SPECIFICATIONS

Battery Pack	CHIEF-12.0K-15.36kWh
Physical	
Battery Type	LFP(LiFePO4)
Weight	58kg
Dimensions(W*H*D)	724*410*261mm
Enclosure Protection Rating	IP65
Warranty	10 Years
Electrical	
Energy Capacity	15.36kWh
Usable Capacity	13.8kWh
Cell Capacity	100Ah
Depth of Discharge(DOD)	90%
Rated Voltage	230V
Operation Voltage Range	180V-280V
Max Parallel Extension	4 Packs(61.44kWh)
Cycle Life	>6000 cycles
Operation	
Rated Charge/Discharge Current	20.9A
Max. Charge/Discharge Current	25A
Peak Discharge Current	42.43A(30rms)
Rated DC Power	18kw
Operation Temperature Range	-30-55C
Storage Temperature	-10-45C
Humidity	0-90%



CHIEF series hybrid all-in-one battery energy storage system (BESS) Size