



# COMMERCIAL PCS

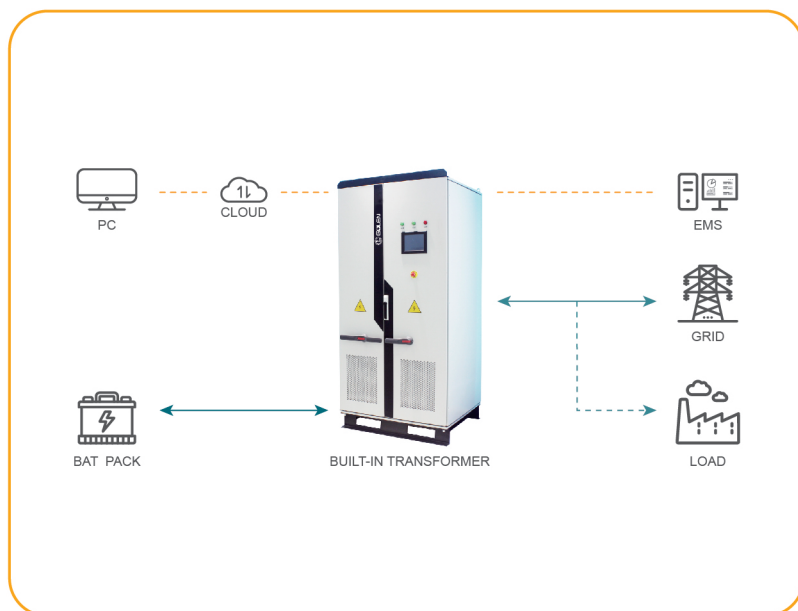
*(Built-in Transformer)*

**LEG-50K / 100K / 250K-TT**



## Product Features

- Can be used in high-altitude, alpine areas
- Power frequency topology, industrial design
- AC and DC dual power backup, ensure the power supply of the control system
- High power density, Max. efficiency up to 97.6%
- High-performance DSP, optimized control circuit design, better performance
- Wide DC input voltage range design, compatible with various batteries
- Functions of grid connected charging & discharging and off-grid independent inverter
- Reactive power and active power are adjustable
- Support diesel generator access, seamless switching between on-grid and off-grid (optional)
- Cold start with load, Three-phase 100% unbalanced load, strong load adaptability
- Friendly grid adaptability, accept power grid dispatch
- Intelligent management control strategy, multiple working modes, online or remote switching



Microgrid



PV power station



Factory



Mine



Farm



Hospital



Hospital

## Technical Specifications

MODEL	LEG-50K-TT	LEG-100K-TT	LEG-250K-TT
<b>DC Input (PV)</b>			
Max. DC Voltage [V]	850		
Operating Voltage range [V]	500~850		
<b>AC Output (On Grid)</b>			
Rated Power [kW]	50	100	250
Max. AC Power [kVA]	55	110	275
Max. AC Current [A]	79	159	397
Rated Grid Voltage [V]	400		
Rated Grid Frequency [Hz]	50/60		
Rated Frequency Range [Hz]	45~55/55~65		
Power Factor at Rated Power	>0.99		
THDi	<3% (Rated power)		
Power Factor	0.9 leading to 0.9 lagging		
AC Output System	3W/N/PE		
<b>AC Output (Off Grid)</b>			
Rated Output Power [kW]	50	100	250
Max. Output Power [kVA]	55	110	275
Rated Output Voltage [V]	400		
Rated Frequency [Hz]	50/60		
THDu	<3% (Linear load)		
Unbalanced Load Capacity	100%		
<b>Protection</b>			
DC Overvoltage Protection	Yes		
DC Short Circuit Protection	Yes		
AC Overvoltage Protection	Yes		
Polarity Reverse Protection	Yes		
Module Temperature Protection	Yes		
<b>Efficiency</b>			
Max. Efficiency	96.0%		97.0%
<b>General Parameters</b>			
Dimensions (W * D * H) [mm]	1000 * 800 * 2015		1000 * 1050 * 2260
Net Weight [kg]	650	750	1600
Isolation Transformer	Yes		
Temperature Range [°C]	-30~+55		
Shutdown Self power Consumption [W]	<50		
Cooling Method	Forced air cooling		
Installation Style	IP20		
Relative Humidity	0~95%,non-condensing		
Max. Altitude [m]	5000 (>3000 Derating)		
Display Mode	Touch screen		
Dispatching Communication Mode	Ethernet,RS485		
BMS Communication Mode	RS485,CAN		
Communication Protocol	Modbus,IEC104		