

C&I ESS Demand Checklist

GROWATT
Manager

GROWATT
Support Engineer

Start Date(yymmdd)

Items marked with * are important for us to assess your demand, please fill in them as much as possible.

Project Profile

◆Project Name

◆Project Location

◆Installer or Electrical Consalter

Electrical Standard

◆System Voltage (Three phase L-L voltage)*

☐ 480V
 ☐ 415V
 ☐ 400V
 ☐ 380V
 ☐ 220V
 ☐ 208V
 ☐ Others: V

◆System Frequency

☐ 50Hz
 ☐ 60Hz

◆Electrical Connection*

☐ 3P3W+PE
 ☐ 3P4W+PE
 ☐ Others:

◆Certification Required (Check all that are needed)

For **EU** models

☐ EN 62920
 ☐ IEC/EN 62477-1
 ☐ IEC/EN 62109-1
 ☐ IEC 62116
 ☐ IEC 61727
☐ G99
 ☐ EN 50549-1
 ☐ VDE 4105
 ☐ NRS 097-2-1
 ☐ IEC 61683
☐ IEC 60068

For **US** models

☐ UL1741
 ☐ UL1741 SA/SB
 ☐ IEEE 1547
 ☐ UL1998
 ☐ E-5000
☐ FCC Part 15
 ☐ SA17-SA18
 ☐ CSIP
 ☐ CEC
 ☐ HECO Rule 14
 ☐ CSA 22.2 No.107.1

☐ Others:

Site Facility

Please list only those to be included in the system, existing or planned.

◆Transformer

☐ Transformer on grid-connection side
 Capacity: kVA
 Available Output: kW

☐ No transformer

◆Load*

Peak load: kW
 Average load: kW

Load types

(leave blank for default 100% resistive)

☐ Inductive %
☐ Capacitive %
☐ Resistive %

If any of the loads have a large inrush current ($\geq 2x$ average load), check here and provide a load curve document for our assessment.

☐ Impact load present
 Impact load power or current
 kW A

◆PV Information*

☐ Solar kWp **or** ☐ Planed & Undecided

☐ Existing PV System kWp Existing PV inverter model: ☐ MAX series ☐ MID series ☐ Others

Please share details of your existing PV system at the bottom of the page.

◆Inverter

☐ Hybrid Inverter (with PV input and battery connection)

☐ Storage Inverter (with battery connection)
Total inverter power kW

(leave blank for default covering peak load)

RSD requirement (available in US model)

☐ TIGO (default) ☐ Others:

◆Battery

APX battery system has a charge and discharge rating of 0.5C, if you mean to guarantee the full output of inverter when using battery only, please consider to choose a large battery capacity.

Capacity kWh **or** ☐ I don't want battery
☐ Planed & Undecided
Battery charge and discharge frequency time(s) per day

System Function

◆Operation Mode*

☐ On-Grid Mode ☐ Off-Grid Mode ☐ On/Off-Grid Mode
☐ Export Limit Function ☐ Export Limit Function

On-Grid Mode means the system works only with grid power supply;

Off-Grid Mode means the system will never be connected to the grid.

For system that can both be connected to the grid and work without the grid, please choose On/Off-Grid Mode.

◆Purpose*

☐ Self-Consumption ☐ Grid Service ☐ Time of Use ☐ Peak Shaving
These purposes are applied for system with **on-grid mode** or **on/off-grid mode**, please check Operation Mode Demand section for consistency.
☐ Micro Grid ☐ Back-Up kW
These purposes are applied for system with **off-grid mode** or **on/off-grid mode**, please check Operation Mode Demand section for consistency.

◆Monitoring

Default using Growatt monitoring.

☐ Integrate into third-party EMS (Modbus)
EMS provider information

◆Generator Integration

Total generator power kW **or** ☐ Planed & Undecided

The generator used has to support dry contact communication.

☐ I want to charge battery and power the load with my generator at the same time
☐ I want to power critical load with my generator when battery is low (not charging battery)

External Condition

◆Installation Environment*

☐ Indoors ☐ Outdoors ☐ Others

◆Installation Space*

Width m Length m Height m

◆Environment Temperature

Max °C Min °C

◆Layout* Cable length between inverter and battery

☐ 4.5m (default) ☐ 15m

Longer than 15m is not supported.

List below any comments on the current set up you'd like to let us know about