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- [Selecting the Grid Standard - video](#)
- [Information and Settings Menu - Video](#)
- [Ginlong Portal Training - Video](#)
- [Dec-17-2019, Go Solis Webinar: 2020 CA Solar Mandate Compliance with Solis Inverters](#)
- [Feb-11-2020, Go Solis Webinar: New Solis 125K 1500V Inverters plus AlsoEnergy: Better ROI for 2-40 MW Systems](#)
- [Solis and the Tigo TS4 Platform; Tested and Harmonized Commercial Inverter 690.12 Rapid Shutdown Solutions](#)
- [Go Solis Webinars - U.S.](#)
 - [Go Solis Webinar #6: Solis and Tigo TS4 Platform - Tested and Harmonized Commercial Inverter 690.12 Rapid Shutdown Solutions"](#)
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 - [Go Solis Mini Exchange#1: An Introduction to Energy Storage System](#)
 - [Go Solis 2020 Webinar #7: Testing Solis Inverters Beyond Certifications with PV Evolution Labs](#)
 - [Go Solis Webinar #8 Solis Inverters and SunSpec Alliance: The Importance of SunSpec CSIP 2030.5](#)
- [Documentos en Español](#)
 - [Códigos de Error](#)
 - [Detección falla de arco y solución de problemas](#)
 - [PV-ISO-PRO-01/02 – Falla a tierra](#)
 - [Código de error : OV-G-F / UN-G-F](#)
 - [I-Leak Pro](#)
 - [Pantalla en blanco / LCD en blanco / Sin luces](#)
 - [Inversor atascado en el arranque](#)
 - [Falla OV-BUS](#)
 - [Falla GRID-INTF & GRID-INTF02](#)
 - [No-Grid - El inversor no reconoce la red.](#)
 - [Fallo UN-BUS](#)
 - [Fallo OV-G-V y UN-G-V](#)
 - [Estándar de Red](#)
 - [Establecer el estándar de red personalizado – Definido por usuario](#)
 - [Establecer el estándar de red personalizado – Definido por usuario](#)
 - [Valores de la configuración "USER DEF" para red 240v y 480v](#)
 - [Conocimientos Generales](#)
 - [Procedimiento de actualización remota de firmware](#)
 - [Reducción de la potencia de salida del inversor Solis monofásico](#)
 - [Instalación de cable RS-485 con conector circular](#)
 - [Configuración de la dirección en inversor trifásico](#)
 - [Contraseña para los menús avanzados](#)
 - [Reducción de la temperatura del inversor](#)
 - [Sistema de Monitoreo](#)
 - [Restablecer WiFi-Stick a la configuración de fábrica](#)
 - [Registro de usuario final al sistema de monitoreo](#)
 - [Guía rápida de instalación del sistema de monitoreo para México y Centro América.](#)
- [Portal](#)

≡ Open navigation

Please first review the article (<https://usservice.ginlong.com/en/support/solutions/articles/36000317639-energy-storage-operating-modes>) **Energy Storage Operating Modes** (<https://usservice.ginlong.com/en/support/solutions/articles/36000317639-energy-storage-operating-modes>) in order to determine which main mode will be best for you.

Note: Either Feed-In-Priority or Self-use must be turned on but they cannot both be turned on at the same time
Self Use



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/solutions/articles/36000320207-export-power-set-and-failsafe-configuration) for more details). This mode is ideal for those who want to utilize their PV power in the evening when the grid power becomes more expensive. We call this concept "energy arbitrage" or "peak-rate shaving" and believe most people will want to be using this mode over the others.

This how to set up the system for **Self-Use** mode and achieve **peak-rate shaving**:

1. Press the **Enter** button and then use the **Down button** to scroll to "**Advanced Settings**" and then press **Enter**
2. The **password** is 0010 - press **Down, Down, Up, and then Enter**
3. Scroll down to "**Storage Energy Set**" and press **Enter** - press the **Down** button once more to "**Storage Mode Select**" and then press **Enter** again
4. Use the **Down** button to highlight "**Self-Use**" and then press **Enter**, then highlight **ON** and press **Enter**
5. There are two options: "Allow Charge from Grid" and "Time Charge" - **first select "Time Charge"**
 1. Use the Up, Down, and Enter buttons to navigate and make changes
 2. "**Optimal Income**" should say "**Run**" next to it - **if this is set to "Stop" then the parameters in this menu will not be enforced by the system**
 3. The charge and discharge limits determine how much power the battery is allowed to use or charge with during the time windows that you set. If you set it to the maximum, the system will discharge up to 6kW until the battery is drained to the Overdischarge SOC or the end of the "discharge" time window is reached. Most people will want to keep the charge limit at maximum to ensure that the battery is always charging as quickly as it can when it is charging. The discharge limit is how you can control how much battery power you use on a regular basis.
 1. Maximum limits for BYD B-Box HV:
 1. Charge Limit: 14.3A
 2. Discharge Limit: 12.0A
 2. **Maximum limits for LG RESU10H:**
 1. Charge Limit: 15A
 2. Discharge Limit: 13.8A
 4. **Note: the charge and discharge windows cannot overlap with each other**
 5. Set the Charge Time in 24-hour format (in Hour-Minute to Hour-Minute format)
 1. During this window, the battery will accept a charge
 2. Most likely, this will be set up for hours in which there is sun. **If you are using grid power and not PV to recharge your battery, then you would likely set the charge window to match up with the cheapest rate for utility power.**
 1. Example: 07:00 --- 14:00
 3. Total time will be displayed on the right in Hours-Minutes
 4. **For peak-rate shaving while not using grid-power to charge you should set the Charge Time to be when the sun is shining, so 6AM to 4PM (06:00 -- 16:00) or whenever the peak rate window begins.**
 6. **Set the Discharge Time in 24-hour format**
 1. **During this window, the battery will discharge power continuously at whatever rate you set it to. The system is not smart enough to vary the discharge rate to match the consumption. Therefore, it is recommended to first determine about how much power is consumed during the hours at which the battery will be discharging. This determines how much power should be allowed to leave the battery during the discharge window.**
 2. **For peak rate shaving, set the discharge window to match the peak-rate hours**
 1. **For example: if the peak rate window is between 5 and 9PM then the Discharge Time should be set to 17:00 -- 21:00**
 3. Total Time will be displayed on the right in Hours-Minutes
 6. Press **Escape** and then when "**Save and Send**" is highlighted, press **Enter**
 7. **It is very important to properly configure backflow power. Please review the article **Export Power Set** (<https://usservice.ginlong.com/en/support/solutions/articles/36000320207-export-power-set-and-failsafe-configuration>) on how to do this.**
 8. The system is now set up for Time Charging Mode and will discharge energy during the programmed hours
 9. On the inverter screen there is an arrow between the inverter and battery - this indicates power flow between the two
 1. Arrow pointing towards the battery means the battery is accepting a charge
 2. Arrow pointing away from the battery means the battery is discharging energy
 3. Energy (kW) will be shown above the arrow

The total amount of kWh that can be obtained from a single full charge will increase as the discharge rate decreases.



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Related Articles

- [Installation Overview & Single-Line Diagrams](#)
- [1 of 20 - Introduction of the Inverter](#)
- [Energy Storage Operating Modes](#)
- [12 of 20 - Energy Storage Operating Modes - Feed-In-Priority](#)
- [15 of 20 - Energy Storage Operating Modes - Backup and Off-Grid Modes](#)
- [RHI-1P\(5-10\)K-5G with BYD HV Commissioning Guide](#)
- [13 of 20 - Installing the Solis Autotransformer](#)
- [7 of 20 - Inverter Menu Overview and Selecting the Grid Standard](#)
- [Go Solis Webinar #3: Solis Hybrid Energy Storage Inverter with LG Chem \(2/11/2020, U.S.\)](#)
- [MET_Comm-FAIL and RS485 Fail troubleshooting](#)