

# ZEUS APPOLLO™

## Z22 Retrofit Series

### Efficiency

- ⚡ Maximum battery charge efficiency up to 96%
- ⚡ Maximum battery discharge efficiency up to 96.5%

### Safety

- ⚡ IP65 Protection (Suitable for indoor and outdoor use)
- ⚡ Over current protection inbuilt
- ⚡ Battery over & low voltage protection integrated

### Features

- ⚡ Upgrade most standard single phase on-grid PV systems to be battery capable
- ⚡ Future proof yourself against rising energy costs
- ⚡ Store excess electricity in batteries rather than exporting to the grid for a low feed in tariff
- ⚡ Cost effective solution to reduce peak evening energy demand
- ⚡ Up to 2500W of charge and discharge power
- ⚡ Remote system and load monitoring via 'Z21Manage'
- ⚡ High quality componentry for better reliability



## Z22 Series Retrofit Energy Storage Unit

The new Zeus Appollo Z22 series retrofit energy storage unit allows solar system owners the opportunity to integrate a battery system into their existing installation at an affordable price.

Each Z22 series unit will intelligently monitor the site load to determine when excess solar generation is available to charge the batteries. In addition to this, if high loads are present and no PV generation is available, the batteries will discharge to meet the load requirement (Up to 2500W).

Thanks to the Z22 series, the management of your solar generation has never been easier. With Zeus Appollo, we put you in full control of your solar needs.

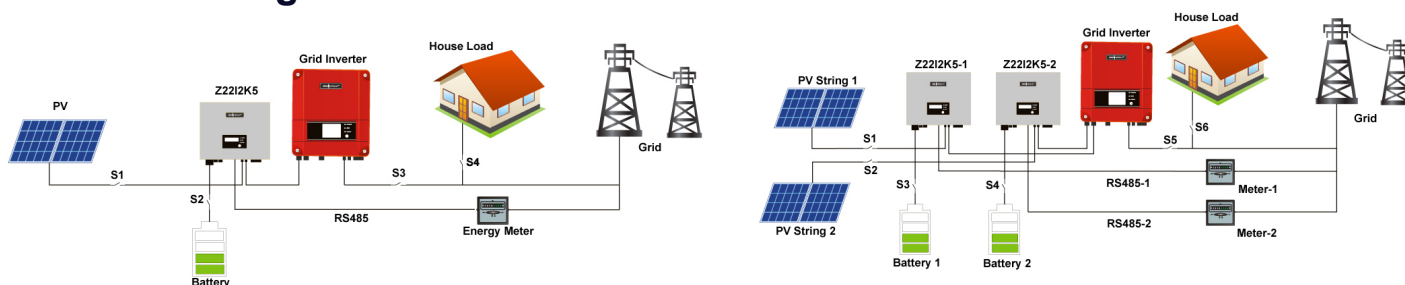
# Technical data

## Z22BS2K5



Model	Z22BS2K5
<b>Input (DC)</b>	
Max. DC Power [W]	6000
Max. DC Voltage [V]	600
Max. Input Current [A]	25
No. of PV Input & Output Connectors	1/1
PV Connector Type	Amphenol/MC4/Sunclix (Optional)
<b>Battery</b>	
Battery Type	Lithium-ion*
Battery Voltage Range [V]	40-57.5
Charging Voltage	57V
Max. Discharge Power [W]	2500
Charge Current [A]	50
Battery Capacity [Ah]	50 - 1000
Charging Curve	3-stage adaptive with maintenance
<b>Output (DC)</b>	
Rated Output Voltage While Discharging [V]	380
Rated Output Current While Discharging [A]	6.5
PV Voltage Range While Charging [V]	150 - 480
Max. Input Current While Charging [A]	10
<b>Efficiency</b>	
Max. Battery Charge Efficiency	96%
Max. Battery discharge Efficiency	96.5%
<b>Safety &amp; Protection</b>	
Battery Over & Low Voltage Protection	Integrated
Over Current Protection	Integrated
Output Current Short Protection	Integrated
<b>Certificate &amp; Standards</b>	
Safety/EMC	CE
<b>Environment</b>	
Degree of Protection	IP65
Operating Temperature Range	-25-60°C (>45 de-rating)
Relative Humidity	0-95%
Altitude [m]	4000
Noise Emission (Typical) [dB]	<25
<b>General Data</b>	
Dimensions (L*W*H) [mm]	344*274.5*128
Weight [kg]	8
Cooling Concept	Natural Convection
Topology	High Frequency Insulation
Communication Interfaces	USB2.0; RS485; Wi-Fi
LCD Display	LED Light & APP
Standard Warranty [Years]	5

## Connection Diagram



## Z22 Series Retrofit Energy Storage Unit

\*Refer to the 'Approved Batteries For Zeus Appollo Z21 & Z22 Series Products' document or contact Zeus Appollo for a full list of permitted battery options.