



INSTALLATION and COMMISSIONING of 16.12KWp HYBRID ON GRID-OFF GRID SOLAR PV SYSTEM with Back-Up Power During Brown Out

Scope of Work:

To carry out the complete installation of **HYBRID** Solar PV System as follows:

- 26 pcs of **620Watts JINKO TIGER-NEO BIFACIAL Solar Panel (TIER 1, Top 10)**
- 1 set of **16Kw DEYE HYBRID ON GRID / OFF GRID INVERTER**
- 1 set of **600Ah/51.2V (30.7KWH)** (i.e. **LIFEPO4**) Lithium Ion Battery as back-up power in case of brown out (Brand: Meritsun - Premium Quality w 7yrs warranty)
- 3 sets of **20A/2P 600VDC MCB Breaker** from Solar panel to Inverter
- 3 sets **20KA~40KA / 800V DC Surge Protective Device**
- 1 set of **80A / 230V AC MCB Breaker** from MDP to Inverter
- 1 set **20KA~40KA / 385V AC Surge Protective Device**
- 60 meters of **4mm sq. PV Solar Cable**
- Complete set of installation materials such as Solar Panel Mounting Rails, Mid & End Clamps, L-Foot, MC4 connectors, Inverter cable accessories, screws, etc.
- Complete installation and commissioning.

NOTE: The system is **HYBRID PV SYSTEM** with battery as back-up power. It is designed to generate an estimated electrical output of approximately between 1,920Kwhr ~ 2,160Kwhr per month based on the Equivalent Sun Hours in the Philippines (ESH) of 4.0 ~ 4.5 hrs per day. **A monthly savings of between P14,000 ~ P16,000 from your Electricity Bill on "DAY USE" only and depending on the export / import power to the distribution utility company.**

PAYBACK TIME:

Assuming the average power generated from the Solar PV System computed as **16Kwp x 4.0 ESH per day x 30 days x 12 months per year = 23,040Kw-hr/yr.** Multiply by **VECO Rate** at an average of P11/Kw-hr = P253,440. Therefore, Return On Investment is P900,000 divide P253,440 = **3.5 Years.**

Total Lump Sum: P900,000.00

Warranties for GRID-TIE SYSTEM using HYBRID GRID TIE INVERTER:

- **12 Years Product Warranty** for material and workmanship & **30 years Linear Power Output Warranty** for Solar Panel from supplier
- **5 Years** for the Hybrid Inverter from Supplier.
- **7 years** for Lithium-Ion Batteries from supplier.
- **3 Years** for the installation and workmanship with lifetime support system.

Philippine Address

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