

Your Sustainable Building Solutions Partner

All-in-One BOX

- ✓ SOLAR PANEL
- ✓ INVERTER
- ✓ CHARGE CONTROLLER
- ✓ BALANCE OF SYSTEM
- ✓ WALL PANEL
- ✓ METAL ROOF
- ✓ DOOR AND LOUVRES



INTRODUCTION

Solar Box is an ALL-IN-ONE Solar Off Grid System. KStr Solar Box provides all the required solar components and accessories including solar panels, charge controller, battery, off-grid inverter for your home.

CLEAN ENERGY

Solar Box generates power through light from the sun, which is the most eco-friendly and cleanest sources of energy. It creates electricity without pollution and noise.

POWERED EVERYWHERE

Solar Box can be installed at anywhere, even if you are in middle of the island where power supplies are not available. You never have to worry about no electricity in these locations anymore.

SYSTEM ADVANTAGES



TYPICAL APPLICATION



FARM



OXYGEN PUMP



BIRDBEST HOUSE



BILLBOARD



VILLAGE



ARMY CAMP



ISLAND CHALET



TELCO TOWER



WELL PUMP



SYSTEM SPECIFICATION

PACKAGE

BETA β SOLAR BOX

ALPHA α SOLAR BOX

Daily energy output Power	2 KVAhr/ daily Vac 240V +/- 10% Pure Sine Wave	1 KVAhr/ daily Vac 240V +/- 10% Pure Sine Wave
AC Frequency	50-60Hz	50-60 Hz
P Con't	2000 watt	1000 watt
P Surge	4000 watt	2000 watt
Daily Discharge Cycle approx.	20 %	20 %
Days of Autonomy	3 days	3 days
DOD Max	80%	80%
Battery Storage Capacity	9,600 Whr	4,800 Whr
Efficiency of Inverter	max. 90%	max. 90%
Estimation Weight	700 kg	550 kg

SYSTEM COMPONENTS

	Type	Beta β Solar Box Qty	Alpha α Solar Box Qty
PV Array	Polycrystalline	4 pcs	3 pcs
Battery Storage	AGM/GEL	4 pcs	2 pcs
Charge Controller	MPPT	1 pcs	1 pcs
PV Mousing	PPGI	1 set	1 pcs
Box Structures	PPGI	1 set	1 set
Safety Protection			
Surge Protector	-	1 set	1 set
DC Breaker	-	1 set	1 set
AC Breaker	-	1 set	1 set
Fuses for PV	-	1 set	1 set
Outlet Power Socket	Weather resistant	1 set	1 set
Combiner Box	IP65 enclosure	1 set	1 set
Earthing	Copper Rod	1 set	1 set
Cables & Connectors	DC/AC/Conduit	1 set	1 set

SOLAR BOX BETA EXAMPLE APPLICATION

	Power	Qty	Working Hour	Approx Daily Energy Required	Power Factor
LED T5 Lighting	13 W	4.0	4.0 hr	0.208 kWh	1.00
Table Fan	40 W	1.0	2.0 hr	0.080 kWh	1.00
Television	85 W	1.0	3.0 hr	0.255 kWh	0.70
Rice Cooker	500 W	1.0	0.5 hr	0.250 kWh	1.00
Fridge (inverter type)	100 W	1.0	24.0 hr	0.800 kWh	0.80

Daily Energy Required

0.208 KVAhr
0.080 KVAhr
0.364 KVAhr
0.250 KVAhr
1.000 KVAhr

1.902 KVAhr/ daily



Contact us

Lot 3801, Batu 6 1/4, Jalan Klinik,
Seksyen 32, Bukit Kemuning,
40460 Shah Alam, Selangor.

T : 03-5162 1688 | F : 03-5162 4286

www.k-structures.com

maxtham@k-structures.com

