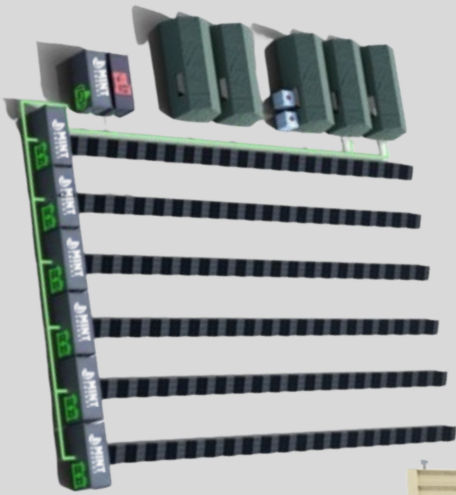


## About Us

Mint Energy develops energy generation and energy storage solutions to meet the ever-changing needs of modern-day consumers and businesses. Mint Energy strives to provide safe, environmentally-friendly, cost-effective, and reliable solutions.



## Solar In A Box

- Efficient energy generation & storage
- Containerized system
- Battery in container
- Fast deployment
- Scalable solution
- Environmentally-friendly
- Storm proof - just push back inside



**Power.** 440 KWh per day included



**Storage.** 436 KWh included



**Scalable.** Distribution of 120V, 220V, & 230V



**Fast Deployment.** Deploys in 1 day



**Mobile.** Set-up and teardown as needed



## Contact us



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MODEL	SolarBox 20' 82.5KWP	
RATED POWER	PV Solar Capacity	82.5 kWP (150x550W)
	Typical daily energy output from PV solar	200-400kWh
	AC Output	60kW continuous
SYSTEM	Operation mode	On-grid/Off grid – Automatic Island mode (Built in ATS) Microgrid mode, parallel up to 10x containers with NODE MODULE (Optional)
ENERGY STORAGE (DC INPUT/OUTPUT)	Nominal voltage	270 Vdc
	DC voltage range	205 - 300 Vdc
	Battery Type	Graphene
	Battery capacity	126 kWh (10x12.6kWh)
	Minimum / Maximum charge voltage	235 Vdc / 297 Vdc
	Maximum charging current	500 A @ 240 Vdc
	Maximum discharging current	250 A
	Max. charging power	120 kW (80 kW from PV + 40kW from grid or generator)
	Max. discharging power	60 kW
AC INPUT FROM UTILITY GRID OR DIESEL GENERATOR	Voltage	380 / 400 /415 Vac (L-L), 220 / 230 / 240 Vac (L-N)
	Phase	Three phase four wires
	Frequency	50 / 60 Hz $\pm$ 2 Hz
	Acceptable input voltage range	360 - 480 (L-L)
	Maximum AC input current	90 A @ 400 Vac
	Input connections (ATS Based)	1x125A Breaker (Grid) 2x125A breaker (2xGenerator) optional CEE Plugs
AC OUTPUT	Voltage	380 / 400 / 415 Vac (L-L), 220 / 230 / 240 Vac (L-N)
	Voltage regulation	$\pm$ 3 % (steady load), < 7% at 100% step load within 0.1 sec.
	Phase	Three phase four wires
	Frequency	50 / 60 Hz
	Wave form	Pure sine wave
	Nominal output current	90 A @ 400 Vac
	Power factor	0.99
	Total harmonic distortion	THDi < 3%
	Maximum surge current	200%
	Maximum output current	90 A @ 400 Vac
	Output connections	1x125A Breaker @ 3 Phase 400 Vac (Optional distribution panel with ground fault, breakers and CEE Plugs 1x50A 3 Phase and 6x16A Single Phase)
EFFICIENCY	Peak efficiency	> 96%
POWER CONSUMPTION	Standby mode	60 W
	Idle mode	520 W
REACTION TIME	Standby to idle mode	3 seconds
	Time to full power (from idle)	12 milliseconds
INDICATOR	LED	Operation Status
	LCD display	Inverter (V/A/Hz/W), AC input (V/A/Hz/W), Battery (V/A/SOC%), Accumulated energy data. System status, Time, Date, Heat sink temperature, Data log, Event log
COMMUNICATION	Communication port	Local RS-485 and RJ45 to internet/cloud services
INTERFACE	Protocol	MODBUS
ENVIRONMENT	Temperature	0 to 55°C (Power draining above 50°C)
	Relative humidity	0 - 90 % (non - condensing)
	Maximum operating altitude	2,000 m
DESIGN	Standard	IEC 61727, IEC 62116, IEC 62109-1, IEC 62109-2, UN38.3, TF331
REGULATION	Ingress protection	IP 65
	Protective class	I
DIMENSION	Container	20' HQ Type
	Size (W x H x L in meters)	6.06 x 2.44 x 2.90
	Weight	About 22,000 kgs
	Deployed foot print in meters	6x136 meters (816SQM)

## Included in the kit

Part Name	Qty
GTP 4020KW AC connected Inverter	1
String Combiner Box (for GTP)	2
String Combiner Box (for SCC) string level	1
SCU with LCD	1
Smart Power Meter	1
MBMS	1
Bidirectional Inverter 60KW	1
Solar Charge Controller 20.6KW	2
AC Distribution Box	1
Battery Rack + DNH	2
Graphene Battery Module 369Kwh	22
System Assembly	1
PV Cables roll of 100 meter	12
PV MC4 connectors set of 2	100
FAT	1
Climate Control System (EU)	1
Fire Detection and suppression System	1
Various Inverter mount etc	1
ECO DELTA 550w Shingled Panel	150
Container	1
Panel Frames for 3 panels	50
PV panel SS304 M6x15 Bolt+Lock Nut	1200
Wheels 80mm + Bush	52
Wheel frame	52
(HDG) Bolt+Nut for fitting the wheel M12	104
(HDG) Bolt+Nut for fitting the wheel M12	52
Rails 90*45	114
Rail Base/Feet (Landing Leg)	126
AC Winch	1
Upper winch motor support mount	1
Steel wire 8 mm *125 meter	1
SUS Turn Buckle	50
Support bracket for PV Panel	300
Cables	2100
Panel Mount Job	1
wire lock sus	24
Top Hinge	25
Fairleas and Winch Setting Unit	1



## Pricing

\$0.29 USD per kWh with a min of 5 hours per day of production

Total minimum payment: \$16,051.00 USD per month for a period of 20 years

Assumes:

- Solar Index of 4
- Production: 330 KWh per day
- Storage: 370 KWh maximum per day

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