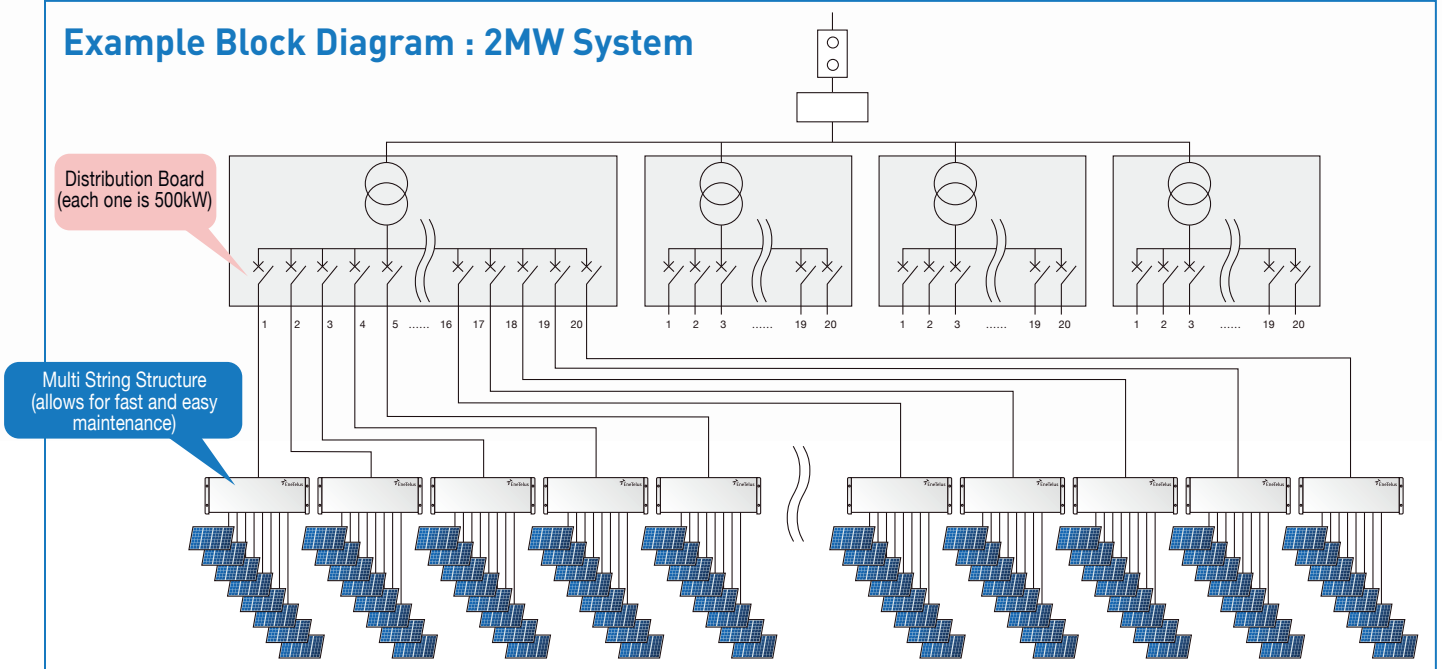


# Inverter

## Tracking 25kW 3-Phase Inverter



Example Block Diagram : 2MW System



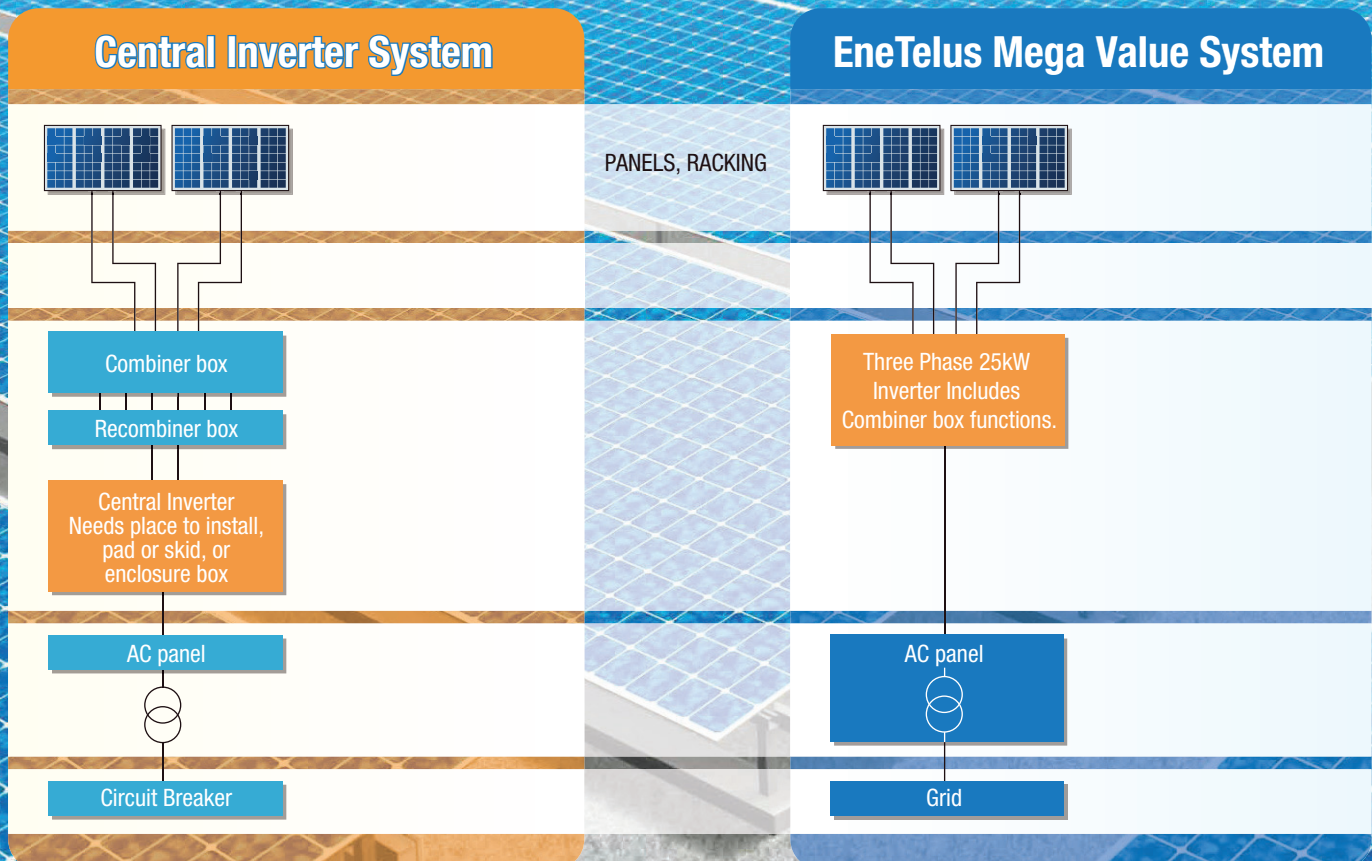
# EneTelus Mega

## Using **LARGE CENTRAL INVERTERS (500kW to 2MW systems)**...

When using 100kW~1,000kW large capacity solar inverter in solar farms, combiner boxes and recombiners are essential. In the case that some part of the solar array generation is reduced, the entire power harvest can drop significantly. Moreover, it is hard to monitor the array in detail and problems are hard to detect until they become serious. In this situation, single inverter's problem can cause massive generation loss. In addition, the total installation cost will be appreciably higher for the installation of the facilities to a large scale inverter.

## These problems will be solved with: **EneTeles Mega Value System** (Distributed Solar System)

**EneTelus Three Phase 25kW PV Solar Inverter achieves easy installation at a reasonable cost.**



# Value System

With EneTelus Mega Value System...

**Superior Power Generation**

**Reasonable Cost**

**Easy Maintenance**

## Maximize the Energy Harvest

With the 8 individual strings (3.2kW input each), it can reduce the possibility of losing solar generated power caused by shades and maximize the generation.

## Ideal usage of space and Reasonable system price

Installation space is maximized and the overall cost of the PV System is reduced because:

- DC Boosters, Combiners and Recombiners are not required
- Outdoor installation, below PV Array

## Flexible installation

With the centralized inverter solar panels have to be justified how to install. In a central inverter system concept, strings must be of equal length and same PV module type. But with the EneTelus Mega Value System and its multiple DC input strings, the installer can decide upon the number and type of PV modules in each string. This provides outstanding design flexibility.

## Exceptional Data Monitoring at String Level

Installers can monitor the solar energy harvest of each string, in addition can also isolate and detect problems at the string level.

## Reliable in any location and climate

Passive cooled fan-less inverter with high corrosion-resistant ferrite stainless steel NEMA 3R enclosure which allows for diversity of installation sites.

## Easy Maintenance

Even when there is a problem with an individual solar panel, installers do not have to shut down the entire system. The specific problematic panel or string can be isolated and shut down while the remainder of the system continues to operate.

## Reasonable and safety proved cable installation

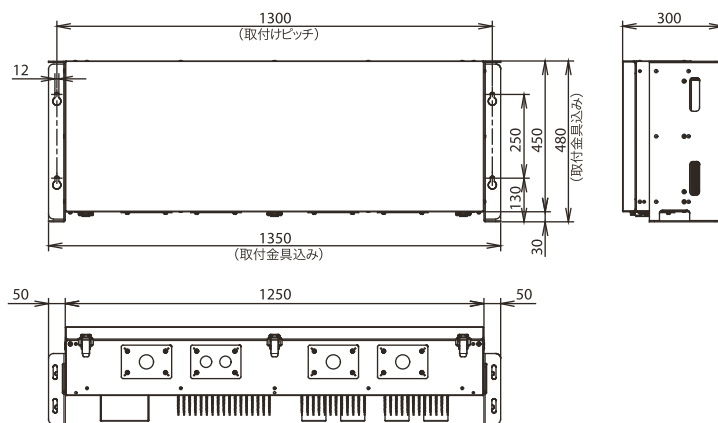
With three phase 440V AC output from each inverter, safety is improved over DC cabling. Moreover the price of conductors and cables would be more reasonable with AC cabling to the grid.

## Various brands and models of solar modules can be used with the same Inverter.

Since each string can use different types of modules, the system is immune from difficulties of future module replacement in the solar array.

# Why not use EneTelus Mega Value System!

# 三相25kWパワーコンディショナ EPU-C-T250P-S



## 主な仕様 Specifications

入力 (DC)	Input (DC)	
最大入力	Max.input power	26000W
最大入力電圧	Max.input voltage	750V
入力電圧範囲 (MPPT制御可能範囲)	MPPT voltage range	DC80V~660V
最小入力電圧・起動電圧	Min.input voltage/initial input voltage	100V
最大入力電流 (ストリングあたり)	Max.input current per string	10A
PV接続方式	PV connection method	マルチストリング方式 (Multi-String system)
ストリング数	Number of circuit	8
出力 (AC)	Output (AC)	
定格出力	Rated output power	25000W
電気方式	Electrical mode	三相3線式 (3-phase 3-wire system)
変換方式	Conversion method	ベクトル制御方式 (Vector control method)
公称出力電圧	Nominal AC voltage	440V
定格出力周波数	Rated power frequency	50Hz/60Hz
定格最大出力電流	Max.output current	34.4A
定格時力率	Power factor at rated power	0.95以上 (More than 0.95)
効率	Efficiency	
最大効率	Max. efficiency	97.8%
単独運転検出	Islanding operation detection	
能動的方式	Islanding operation detection: Active	無効電力変動方式 (Reactive power fluctuation method)
受動的方式	Islanding operation detection: Passive	電圧位相跳躍検出方式 (Voltage phase jump detecting method)
その他仕様	Features	
寸法 (W/H/D)	Dimensions (W/H/D)	1250 / 450 / 300 (本体寸法)
質量	Weight	85kg
使用環境温度範囲	Operating temperature range	-20℃ ~ +50℃
待機電力	Internal consumption	20W程度 (20W TYP)
冷却方法	Cooling concept	自然冷却方式 (Natural cooled system)
防水防塵保護等級 (JIS)	Degree of protection (JIS)	IP65相当
通信インターフェイス	Interface	EneTelus Master Box (有線RS485)

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