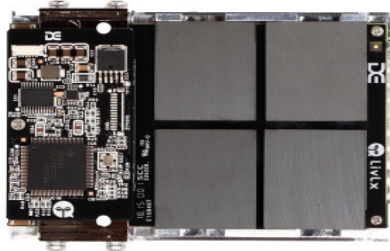


# Isolated Bidirectional DCDC converter



## Specifications :

Primary Side	DC270 - 330 V / 1.0 kWmax
Secondary Side	DC270 - 330 V / 1.0 kWmax
Efficiency	95% @ 1 kW
Switching Device	GaN-HEMT
Switching Frequency	Max 2 MHz
Dimension of Power Unit	W93.5 X D60 x H10.5 mm
Product Dimension (Incl. mounting part)	W115 X D80 x H12.5 mm



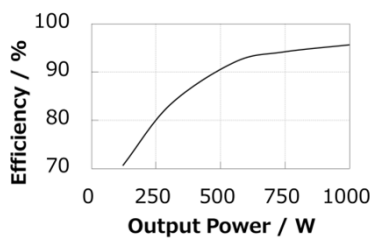
### ! Using new device ( GaN-HEMT )

- The new device, GaN-HEMT enables -
  - High switching frequency at max 2 MHz with combination of our original control technology
  - Rapid switching and it helps to reduce switching loss even at low voltage range



### ! Ultra small and same size as business card

- Due to high switching frequency, the size of component could be reduced.
- Also, as charge and discharge circuit is combined in this small device, it enables miniaturization of power conversion system.



### ! High power conversion efficiency ( 95% )

- Power density is more than 17 kW/L and its high power conversion efficiency is achieved due to-
  - Soft switching
  - Our original control method ( Duty control )

## Application Example



- Solar Inverter
- ESS
- Onboard Charger

