

## 30kW Mars Series Wide-range PCS Module for Commercial and Industrial BESS



### + Advantages

#### Perfect Compatibility

- Built-in DC/DC circuitry supporting DC voltage from 150~ 880V

#### Flexible Application

- Support 8 sets of modules co-DC
- Support 32 sets of modules co-AC
- 3U standard modular design
- Support UPS, DVR, and SVG
- Support 100% imbalance load in off-grid mode

#### High Efficiency and Intelligence

- Efficient harmonic suppression algorithm
- Intelligent multi-level fan speed control
- Three-level topology with up to 97.2% conversion efficiency

#### Grid-Friendly

- Support high and low voltage ride-through
- Stable operation in weak grid conditions
- Grid-forming on-grid technology

Specifications	Mars-30KT-W
<b>DC side</b>	
Max. DC voltage	880v
Min. DC voltage	150V
DC voltage working range(full load)	150~880V (340~880V Full power)
Max. DC current (long-term operation)	90A
<b>AC side ( on-grid )</b>	
Rated charge and discharge power	30kW
Max. charge and discharge power	36kW
Rated charge and discharge current	44A
Rated grid voltage	400V
Allowed grid voltage range	300~440V
Rated grid frequency	50Hz/60Hz
Total harmonic distortion of current	<3%(at rated power)
Power factor	>0.99
Power factor range	-1~1
Overload capability	1.2Pn,last for one minute
<b>AC side ( off-grid )</b>	
Rated output voltage	400V
Voltage deviation	±2%
Total harmonic distortion of voltage	<3%(linear load)
<b>Efficiency</b>	
Max. efficiency	97.2%
<b>Protection</b>	
DC RCP	Yes
AC SCP	Yes
AC output OCP	Yes
Surge protection	Type II
Insulation resistance detection	Yes
Temperature protection	Yes
DC switch	Yes
<b>General</b>	
Dimensions (W*H*D)	445mm*130mm*570mm
Weight	<31kg
Topology	Transformerless
Working temperature	-40~+60°C full power operation at or below 45°C
IP level	IP20
Cooling method	Intelligent air cooled
Max. working altitude	<4000m ( derating above 3000m)
Standby power consumption	<10W
<b>Characteristics</b>	
DC connector	Rerr Exit OT terminal
AC connector	Rerr Exit OT terminal
Display	LED
Communication mode	Ethernet, RS485, CAN