

# Mars-L series liquid cooling PCS module



## + Features

### 👍 Efficient and intelligent

- Efficient harmonic suppression algorithm
- Intelligent multi-level speed-adjustable fan control
- Three-level topology, up to 99 % conversion efficiency

### 🔄 Flexible

- Support 8 sets of modules co-DC
- Support 32 sets of modules co-AC
- Design comply with 4U standard
- Support UPS, DVR, SVG
- Support 100% imbalance load in off-grid mode

### 🔗 Grid-friendly

- Support high and low voltage ride through
- Support stable operation of weak grid
- Grid-forming on-grid technology

Specifications	Mars-100KT-L	Mars-125KT-L
<b>DC side</b>		
Max. DC voltage	1000V	1000V
Max. DC voltage	580V	580V
DC voltage working range	580~1000V	580~1000V
Maximum current on DC side	173A	216A
<b>AC side(on-grid)</b>		
Rated charge and discharge power	100kW	125kW
Maximum charge and discharge power	120kW	150kW
Rated charge and discharge current	145A	182A
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>		
Maximum efficiency		99.0%
<b>Protection</b>		
DC RCP		YES
AC SCP		YES
AC output OCP		YES
Surge Protection		Level 2
Insulation resistance detection		YES
Temperature protection		YES
DC switch		YES
<b>General</b>		
Dimensions(W*H*D)		444mm*175mm*720mm
Weight		<58kg
Topology		no transformer
Working temperature		-40~+60°C
IP level		Ip43 (PACK integration of module and battery, system protection level: IP54 or higher)
Cooling method		water-cooling
Working altitude		<4000m (Derating above 3000m)
Standby power consumption		<12W
<b>Characteristics</b>		
DC connector		OT terminal
AC connector		OT terminal
Display		LED
Communication mode		Ethernet, RS485, CAN