麦融高科相变储能一体化机房专用空调，国家先进能源领域重点项目

产品名称	麦融高科相变储能一体化机房专用空调，国家先进能源领域重点项目
公司名称	长沙麦融高科股份有限公司
价格	面议
规格参数	品牌:麦融高科 型号:MPRA5 机械制冷量（W）:5500
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产品详情

温馨提示：

产品型号分多种，参考属性以第一个为标准，具体请见以下技术参数表

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???????????? phase change energy storage air conditioner

??“863??”??
??????????????????????????????

the integrated unit combined phase change materials (pcms) and air conditioning is the product of “national 863 project”, which is developed together with chinese academy of sciences and hunan university. it integrates phase change energy storage technology, fresh air heat exchange technology, and air conditioning technology, making best use of outdoor natural cold source and different electric rates during nighttime and daytime. it can reduce the energy consumption of air conditioners considerably under the premise of equipment safety.

???? work principle

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??+????????????+
?????????

this unit combines air conditioning system, natural cold source systems (heat exchanger, fresh air, and heat pipe), and energy storage system together. the air conditioning system and energy storage system run in series and the energy storage system and natural source system run parallel. it has five different running modes: natural source mode, natural source + energy storage mode, air conditioning mode, air conditioning + energy storage mode, and energy release mode.

???? product feature

1????????????????????

2???

3?????????????????????eer??11???

4???

5??????????????????????????????????

1 it improves the energy utility efficiency for the use of energy storage technology.

2 it realizes energy savings and energy storage through integrated control strategy, aiming at economic running.

3 its mean energy efficiency ratio (eer) is higher than 11 for the use of three-item, two-way heat exchanger (csmx patent).

4 it runs at the optimal point for the use of famous thermostatic expansion valve and closed flexible scroll compressor.

5 it reduces maintenance work during the fresh air mode for the application of self-clean filter (csmx patent).

????? technical parameter

????	type	mpra5	mpra7
??????w?	cooling capacity (w)	5500	7500

????w?	heat exchange rate (w)	3376	4820
????w?	energy storage rate (w)	4012	6018
?????w?	power (w)	2000	2800
?????a?	current (a)	9.28	13.29
??????m³/h?	inside circulating air flow rate (m³/h)	1400	2000
??????m³/h?	outside circulating air flow rate (m³/h)	2000	3000
?x?x??mm?	w×d×h (mm)	550x550x1850	650x650x2000
???kg?	weight (kg)	148	225
?????????	temperature range (?)	-40—55	-40—55