Indoor Integrated Power System

MTS9604B-L20B1

Introduction

- MTS9604B-L20B1 is a new type of AC/DC indoor integrated power system designed by Huawei , with the features of end-to-end high efficiency, supporting modular evolution, intelligent peak shaving and intelligent staggering power, full digitalization and intelligentization. It is suitable for scenarios of enterprise communication network

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Features

- System-level efficiency and energy saving: efficient conversion, efficient power distribution, and efficient energy storage

- Supports smooth evolution: the innovative architecture design enables smooth expansion of rectifier and power distribution

- Intelligent peak shaving enables grid free from modernization(must integrate with BoostLi lithium battery)

- Intelligent staggering power unleash the potential of sites: grid adaptive adjustment, make full use of difference between peak and valley power price, reduce electric cost(must integrate with BoostLi lithium battery)

- Intelligent management: online remote maintenance reduces site visits and maintenance costs

Application Scenarios

- Enterprise communication network

Note: Preliminary issue. Any datasheet issued previously is invalid when new version releases.   *Issue date of this version: 2020-04-09*

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Specifications

Product Type		MTS9604B-L20B1
System	Dimension (W × D × H)	600mm × 600mm × 2000mm
	Weight	≤100kg (without rectifier modules or batteries)
	Cooling mode	Natural cooling
	Installation mode	Ground installation (antistatic floor or ground installation)
	Cabling mode	Top inlet and top outlet
	Maintenance mode	Front operation and maintenance; support installation against the wall
	Protection level	IP20
	User space	None
	Battery space	4 sets of 48V/190Ah lead-acid batteries
	Number of module slots *	8
AC Distribution	Input mode	127V /220V AC 3 live wire
	Input voltage	85~300VAC, rated value: 200~240VAC
	Input frequency	45Hz - 66Hz, rated value: 50Hz/60Hz
	Input capacity	1 × 100A/3P MCB
	SPD	20kA/40kA, 8/20µs
DC Distribution	Output voltage	Normal mode: 42VDC - 58VDC, rated value: 53.5VDC 5G mode: 57VDC constant (must integrate with BoostLi lithium battery)
	Maximum capacity	24kW
	Battery branch	4×125A/1P MCB
	LLVD branch	2 × 100A/1P MCB, 2 × 63A/1P MCB, 4 × 32A/1P MCB, 2×16A/1P MCB
	BLVD branch	4 × 63A/1P MCB, 2 × 16A/1P MCB, 2 × 10A/1P MCB
	SPD	Nominal lightning strike discharge current: Differential mode - 10kA (8/20µs); Common mode - 20kA (8/20µs)
Rectifier	Model	R4850G2、R4850G5
	Max. output power	3kW/4kW
	Efficiency	R4850G2（Maximum 96%）/R4875G5（Maximum 97%)
	Dimension (W × D × H)	105mm × 281mm × 40.8mm
	Weight	≤2.2kg
Controller	Signal input	5 AI (Battery temp., ambient temp., ambient humidity, temp1, temp.2) 9 DI (Water, smoke, gate, 6 common DI)
	Alarm output	8 dry contacts
	Communication port	RS232, RS485, FE
	Storage capacity	Up to 50000 historical records and alarm
	Display mode	LCD
Environment	Operating temperature	-10℃ to +45℃ (including batteries)
	Storage temperature	-40℃ to +70℃
	Operating humidity	5% - 95% (non-condensing)
	Altitude	0 - 4000m (High temperature derating in the environment of 2000m - 4000m, the operating temperature is reduced by 1℃ for every 200m increase)

* Can be deleted when communicating with customers

Specifications – Optional Accessories

Optional Hardware	Lead-acid battery	Maximum support 4 sets of 48V/190Ah lead-acid batteries	
	DC Distribution Expansion Box (DCDB48-200-16B)	Secondary load: 6 × 63A MCB, 4 × 32A MCB Important load: 2 × 32A MCB, 2 × 20A MCB, 2 × 16A MCB	**Note:** 1U height, 19-inch rack installation, used for DC output expansion
Optional Software Features	Intelligent boosting	Support -57VDC constant voltage output by software configuration, suitable for high power load and long distance power supply	Note: must integrate with BoostLi lithium battery
	Intelligent peak shaving	When the peak load exceeds commercial power supply, the power system can control the battery to discharge and share the burden, reducing the peak load of grid power	
	Intelligent staggering power	Grid adaptive adjustment, make full use of the difference between peak and valley power price, reduce electric cost	
	Intelligent management	Support NetEco, can perform statistical analysis on energy efficiency of single station and the whole network, can carry out targeted upgrades and improve the operation efficiency, reduce maintenance cost	