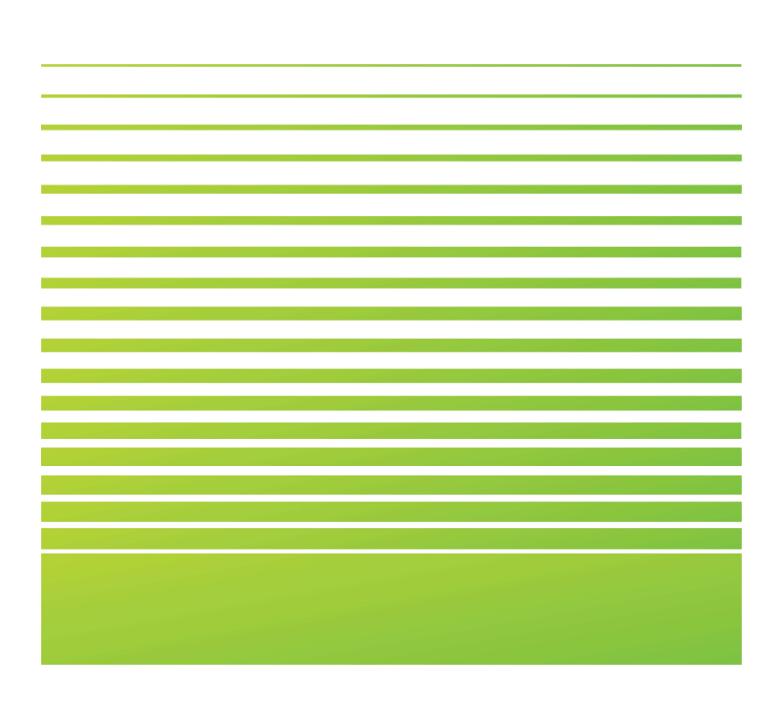


WTS CORE Series Datasheet-V1.0



WTS CORE series, sparkling with innovation, provides you with intelligent integration storage solutions. This series has 2 platforms including low voltage and high voltage. There are 2 models under high voltage platform, which are WTS Power-CORE 1.0 and WTS Energy-CORE 1.0. WTS Power-CORE 1.0 is a power type with a capacity of 2.76kWh, 102.4 V in each battery stack. WTS Energy-CORE 1.0 is an energy type with a capacity of 3.2kWh, 64 V in each battery stack. Both of them can handle up to a voltage of 600V sharing our minted Smart BMS 1.0.

Smart BMS 2.0 will be released to support Modbus TCP/IP. BMS 2.0 will boost up the threshold of protection voltage up to 1000V for small C&I energy storage systems.

Core series will inaugurate a new era in the residential energy storage industry.



System Matrix

	Smart BMS 1.0	Smart BMS 2.0		
Voltage Range	120~600 V	240~1000 V		
Communication	CAN 2.0 / RS485	CAN2.0 / RS485 / Modbus TCP/IP		
WTS Power-CORE 1.0	2 T0 5 Stacks	3 To 8 Stacks		
WTS Energy-CORE 1.0	3 T0 8 Stacks	5 To 13 Stacks		



SPECIFICATIONS

Supported by Smart BMS 1.0

Smart System Design



- LFP Chemistry
- ·Automatic Inverter Configuration (set-up free)
- ·Automatic Battery System Configuration (set-up free)
- ·Intelligent Display (Key Info, Err code, SOC)
- Power-CORE 1.0 and Energy-CORE 1.0 for all applications
- ·1 and 3 phase, on / off grid / back up support
- ·No DC/DC, high efficiency system layout
- ·Up to 6 towers in parallel

Smart Installation Design



- ·Stackable Design, Easy Installation, ≤36.5kg/ Stack
- ·Slim and Compact
- ·Plug-Play (Direct Connect RJ45)
- VDE2510 Compliances
- -Aluminum Housing
- · IP65 Protection



SPECIFICATIONS

Supported by Smart BMS 1.0

Smart BMS 1.0

ITEM	PARAMETER
Operating Voltage Range	120~600 V
Max Output Current	30 A
Peak Output Current	50 A (5s)
Communication	CAN 2.0 / RS485
Dimensions (H/W/D)	175 * 650 *260 mm
Weight	≤20 kg



SPECIFICATIONS

Supported by Smart BMS 1.0

Battery Stack

ITEM	PARAMETER		
ТҮРЕ	WTS POWER-CORE 1.0	WTS ENERGY-CORE 1.0	
Battery Cell Technology	LFP	LFP	
Operation Temperature	-10 ~ 55 ℃	-10 ~ 55 ℃	
Usable Energy	2.76 kWh	3.2 kWh	
NominalVoltage	102.4 V	64 V	
Operating Voltage Range	86.4~116.8V	54~73 V	
Max Output Current	25 A	30 A	
Peak Output Current	50 A (5s)	50 A (5s)	
Dimensions (H/W/D)	175 * 650 *260 mm	175 * 650 *260 mm	
Weight	≤35kg	≤36.5kg	



SPECIFICATIONS

Supported by Smart BMS 1.0

WTS Power-CORE 1.0



Number of Stacks	2	3	4	5	
Usable Energy	5.52 kWh	8.28 kWh	11.04 kWh	13.80 kWh	
Max Output Current	25 A	25 A 25 A		25 A	
Peak Output Current	50 A (5s)	50 A (5s) 50 A (5s)		50 A (5s)	
Nominal Voltage	204.8 V	307.2 V	409.6 V	512 V	
Operating Voltage Range	172.8~233.6 V	259.2~350.4 V	345.6~467.2 V	432~584 V	
Dimensions (H*W*D) (mm)	625* 650 *260	800* 650 *260	975* 650 *260	1150* 650 *260	
Weight	90 kg	125 kg	160 kg	195 kg	



SPECIFICATIONS

Supported by Smart BMS 1.0

WTS Energy-CORE 1.0



Number of Stacks	3	4	5	6	7	8
Usable Energy	9.6 kWh	12.8 kWh	16.0 kWh	19.2 kWh	22.4 kWh	25.6 kWh
Max Output Current	30 A	30 A				
Peak Output Current	50 A (5s)	50 A (5s)				
Nominal Voltage	192 V	256 V	320 V	384 V	448 V	512 V
Operating Voltage Range	162~219 V	216~292 V	270~365 V	324~438 V	378~511 V	432~584 V
Dimensions (H*W*D)	800* 650 *260 mm	975* 650 *260 mm	1150*650 *260 mm	1325*650 *260 mm	1500* 650 *260 mm	1675*650 *260 mm
Weight	129.5 kg	166 kg	202.5 kg	239 kg	275.5 kg	312 kg



GENERAL PARAMETERS

Operation Temperature $-10 \sim 55 \, ^{\circ}\text{C}$

Protection Rating IP65

Round-trip Efficiency ≥96%

Certification & Compliance VDE2510-50 / IEC62619 / CEC / CE / UN38.3

Applications ON Grid /ON Grid Backup/OFF Grid

Warranty 10 Years

