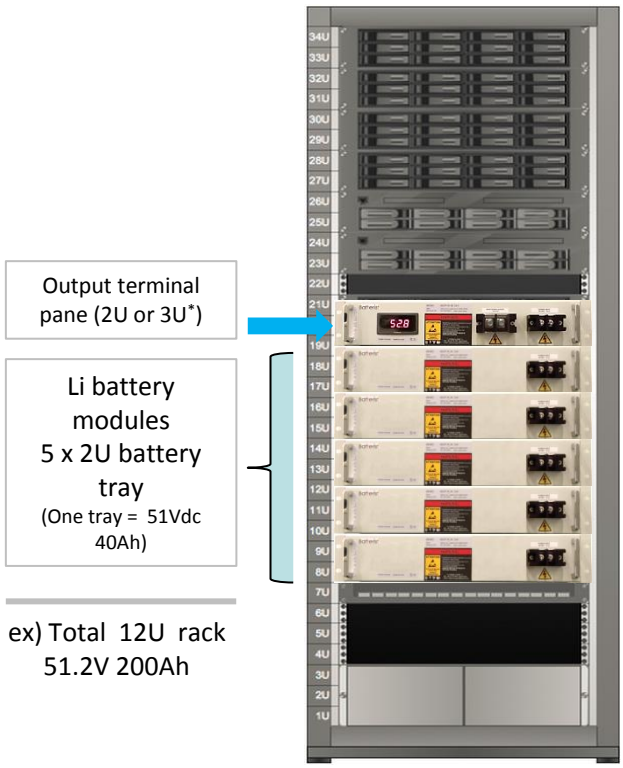
Ver. November 2014

HESS® TRF 51Vdc
120 ~ 400Ah Rack type

Batterist
Advanced Battery System

SPECIFICATION — Lithium Ion Battery

System in 19" standard rack



Cell : Lithium ion Polymer Battery		LiFePO4
NOMINAL CAPACITY (0.2C/0.2C)		120 ~ 400Ah
NOMINAL VOLTAGE (Volt)		51.2V
ENERGY CAPACITY (kWh)		6.1 ~ 20kWh
CHARGE	CURRENT (A)	Normal 8A (0.2C) Max. 40A (1.0C)
	VOLTAGE (V)	54.4V(recommend)
DISCHARGE	Max. CONTINUOUS(A)	Max. 5C
	VOLTAGE (V)	Min. 46.4V
CYCLE LIFE 70% Retention	DOD<90% at 23℃	2000cycle
BMS/ PCM (selectable) Optional	Features	Cell monitoring & balancing
	Protection functions	Under voltage Over voltage Over current Over temperature
Unit Cell	Voltage, Capacity	3.2V 20Ah
TEMPERTURE ℃	Charge	0 ~ 60°C
	Discharge	-10 ~ 60°C
	Storage	-10 ~ 55°C

Key parts : BPU(Battery Protection Unit)

Battery Protection Unit ;
relay, fuse, switch

Stand-alone or Master

Slave tray type

* Product specifications and appearance are subject to change without notice.
* The lithium battery shall be charged by lithium battery charger (or rectifier).

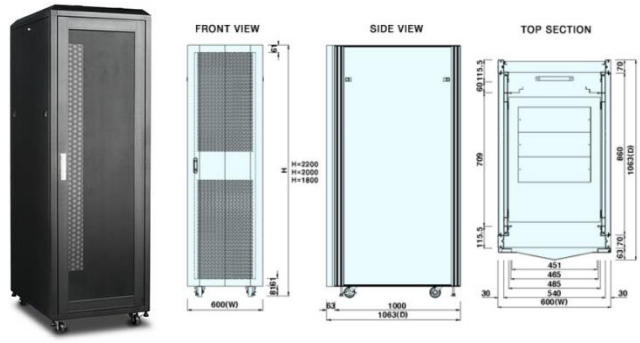
Key features and advantages

✓ **Base Transceiver Station Solution**
- ESS can supply power to mobile base stations in remote areas combined with solar panels.
- Automatic power cutoff at system failure
- Long life & safe LiFePO4 battery

✓ **Easy handling**
- Simple and low maintenance is the best advantage of lithium ESS for remote or inaccessible remote BTS.
- Thin and light wiring
- Light weight modular design

✓ **Scalable system for capacity expansion**
- ESS can be designed depending BTS scale from micro cells to large sized off-grid towers

Rack dimension



HESS® *Mega*
0.5 ~ 1MWh

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