

Specifications of 12V -150AH SMF –VRLA Batteries for 30 KVA UPS

Battery Particulars	
Battery type	Sealed Maintenance Free Valve Regulated Lead Acid (SMF-VRLA)
Battery @C20 Rating	12V-150 AH
Number of Batteries	30
Battery Dimensions	(485(L) x 170(W) x 240 (H) mm) approx.
Weight	43.0 kg approx.
Characteristic Capacity (at 25 deg C)	
20 hrs rate	150 Ah
10 hrs rate	135 Ah
3 hr rate	119 Ah
1 hr rate	88 Ah
Self Discharge (at 25 deg C)	
After 3 months	91%
After 6 months	82%
Cut off voltage (at 25 deg C)	
30.0A – 75.0 A	10.2V
7.5A – 30.0 A	10.5V
Discharge Characteristics (at 25 deg C)	
@150A	Approx duration 40 minutes
@ 7.50A	Approx duration 20 hours
Charge Regime: Batteries shall be charged in constant potential mode with current limit	
Float charging voltage	13.5 volts per module @27 deg C
Boost Charging voltage	13.8 volts per module @27 deg C
Current limit	10 Amps minimum to 25 Amps maximum
Voltage ripple allowable	<2% of the RMS value
Recommended Voltage compensation	For every 1 deg C rise in temperature reduce the float voltage by 0.003VPC and vice versa. Ensure the extension of the temperature sensor upto battery.
Product details	
AH Efficiency	Above 95%
WH Efficiency	Above 85%
Operating temperature range of Battery	-20 deg C to + 60 deg C
Date of manufacturing	The date of manufacturing shall not be more than 6 months older than the date of supply.
Recommended max period of storage	3 months from the date of dispatch before first use and battery should be stored in a covered area at 27 deg C.
Container material	Flame Retardant material
Type of separator	Highly absorbent Micro porous spun glass matrix (AGM)
Construction	Maintenance Free & Non-spillable sealed construction using Epoxy sealing– suitable for Indoor use. Using very high purity calcium alloy to give maximum service life
Valve	Self-Lubricated pressure regulating valve for safe Indoor operation
Type of +ve and –ve plates	M8 threaded post (in case the vendor has alternate configuration matching cables to be provided for inter battery as well as battery to UPS connection)

Internal resistance at 25°C	4 milli ohms
Cycle Life	1200 Cycles for 30% discharge 500 Cycles for 50% discharge 250 cycles for 100% discharge
Design trickle life at 25 °C	6 years or better
Applicable standards	
Batteries	IEC 61056-3 OR JIS C 8702
Preferred Make	Exide/Quanta/Panasonic/Rocket

All the specifications must be duly authenticated by the OEM, mere statement of compliance with the specifications will not suffice.

The quotation should include the cost for integration/ assembly of these batteries into the UPS after disassembly of the existing bank.

Other instructions:

OLD 30 nos of 12V 150 AH SMF VRLA Quanta make batteries are available for buy back. Buy back terms should be clearly specified.

Vendor should provide:

- a) Quarterly health check of the batteries.
- b) 10 % bank guarantee to be furnished.
- c) 3 years onsite warranty for the batteries / To Quote with Manufacturer and Extended warranty separately.