period of 4 hours during mains failure, assuming a normal charge condition at the start of the mains failure.

C. All batteries shall be supplied in banks sized for easy handling, and all interconnections shall be included. Batteries shall not be housed above charger units or any other equipment and shall be so ventilated that gases do not permeate into adjacent equipment.

1.3.27.2 Battery Chargers

A. Battery Chargers shall confirm to BS EN 60146-1.

B. Battery chargers complete with associated controls shall be provided and mounted on its own chassis and housed in one of the section of the MCC, stand-alone panel or in a separate enclosure as applicable.

C. The front panel for each charger unit shall include :-

a. 1 No. “ON/OFF” Mains switch

b. 1 No. Lamp to indicate “A.C. Supply On” (white)

c. 1 No. Charger Ammeter

d. 1 No. Lamp to indicate charger healthy

e. 1 No. Lamp to indicate “Charger Failed” (Amber)

f. 1 No. Lamp test push button

D. Charger unit shall also be provided with:-

a. 1 No. Set of a.c. supply fuses

b. 1 No. volt-free contact for charger failed alarm

c. 1 No. volt-free contact for low d.c. output voltage alarm

d. 1 No. volt free contact for loss of d.c. output voltage alarm

E. Volt free contacts shall OPERATE in fail-safe mode and be wired to terminal block.

F. The Charger unit shall also be equipped with the followings:-

a. 1 No. DC output voltmeter, scaled to indicate regions of “Low”, “Normal” and “High” output voltages, by the use of different coloured sectors.

b. 1 No. D.C. output switch