



FHP 12-90

PHYSICAL SPECIFICATION

| | | | |
|--|--------------|---------------------------------------|---|
| Nominal Voltage Nominal Capacity (20Hr) | | 12V 90Ah | Stationary block sealed VRLA Box Material: ABS dark grey color FV0 (UL94 V-0) Lid Material: ABS dark grey color FV0 (UL94 V-0) Positive and negative flat plates with casted grids Pb/Ca/Sn Technology AGM VRLA Technology AGM VRLA Standards: CEI EN 60896 Parts 21 and 22 Temperature exercise: -20°C +50°C Design Life : 12years (at 20°C) |
| Dimensions | Length | 307 ±2mm | |
| | Width | 169 ±2mm | |
| Box Height | Box Height | 208 ±2mm | |
| | Total Height | 213 ±2mm | |
| Drawing n°400281-0 | | Weight 29 Kg ±5% | |
| Standard Terminal | | Bolt Type: M6 | |
| | | Bolt-and-nut terminal Bolt Type:M6 | |

ELECTRICAL SPECIFICATION

| | | | | |
|----------------------------------|------------------------------|--|--------------------------------|--|
| Characteristics | | | Discharge curves @ 20°C | |
| Rated Capacity | 20 hours rate 1,8Vpc at 20°C | 90,00Ah | | |
| | 10 hours rate 1,8Vpc at 20°C | 80,00Ah | | |
| 5 hours rate 1,7Vpc at 20°C | 73,20Ah | | | |
| 3 hours rate 1,7Vpc at 20°C | 71,64Ah | | | |
| 1 hour rate 1,6Vpc at 20°C | 53,10Ah | | | |
| Capacity affected by temperature | 40°C | 102% | | |
| | 20°C | 100% | | |
| | 0°C | 85% | | |
| Internal Resistance 4 mΩ ±10% | | SCC 2400 A ±10% | | |
| Constant Voltage Charge | Cycle use | Initial Charging Current less than 25 A Voltage 14,70~15,00V at 20°C Temperature Coefficient -30 mV/°C | | |
| | Stand-by use | No limit on Initial Charging Current Voltage 13,60~13,80V at 20°C Temperature Coefficient -20 mV/°C | | |

Constant Current (Amp) and Constant Power (Watt/cell) Discharge Table at 20°C

| Final V./Time | | 5min | 10min | 15min | 20min | 30min | 45min | 60min | 90min | 2hours | 3hours |
|---------------|---|--------|--------|--------|--------|--------|--------|--------|-------|--------|--------|
| 9.9V | A | 218,70 | 161,16 | 129,22 | 109,41 | 86,02 | 65,43 | 52,62 | 37,11 | 33,00 | 24,85 |
| | W | 383,55 | 283,49 | 232,52 | 200,48 | 159,62 | 123,39 | 100,48 | 77,08 | 63,59 | 48,25 |
| 10.2V | A | 203,71 | 150,09 | 120,78 | 102,91 | 81,55 | 61,84 | 50,87 | 35,94 | 31,84 | 23,88 |
| | W | 360,59 | 266,41 | 218,83 | 189,90 | 152,52 | 117,67 | 97,86 | 75,26 | 61,74 | 46,60 |
| 10.8V | A | 156,30 | 116,99 | 96,50 | 84,37 | 68,74 | 52,68 | 44,08 | 33,04 | 29,03 | 21,84 |
| | W | 290,06 | 215,92 | 179,70 | 158,35 | 130,29 | 101,46 | 85,43 | 71,20 | 56,76 | 42,81 |