

## SK12-140 12V - 140AH

The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.



### Battery construction

Component	Positive plate	Negative plate	Container	Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

### General features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.

### Dimensions and weight

Length (mm / inch) .....341 / 13,4  
 Width (mm / inch) .....173 / 6,81  
 Height (mm / inch).....283 / 11,1  
 Total Height (mm / inch).....287 / 11,3  
 Approx Weight (Kg / lbs).....40,0 / 88,2

Terminal Type : F11 (M6)

### Performance characteristics

**NOMINAL VOLTAGE**..... 12V  
**NUMBER OF CELL** ..... 6  
**NOMINAL CAPACITY (25°C)**  
 20 hour rate (7.39A - 10.8V) ..... 147Ah  
 10 hour rate (14.0A - 10.8V) ..... 140Ah  
 5 hour rate (23.6A - 10.5V)..... 118Ah  
 1 hour rate (86.5A - 9.6V) ..... 86.5Ah  
**INTERNAL RESISTANCE**  
 Fully Charged battery (25°C) ..... 3.8 mOhms  
**SELF-DISCHARGE**  
 3% of capacity declined per month at 20°C (average)  
**OPERATING TEMPERATURE RANGE**  
 Discharge ..... -20 — 60°C  
 Charge ..... -10 — 60°C  
 Storage ..... -20 — 60°C  
**MAX DISCHARGE CURRENT**  
 77°F (25°C)..... 950A (5s)  
**CHARGE METHODS** Constant Voltage Charge 77°C (25°C)  
**Cycle use** ..... 14,4 — 14,7V  
 Maximum charging current..... 40A  
 Temperature compensation..... -30mV/°C  
**Standby use** ..... 13,5 — 13,8V  
 Temperature compensation..... -20mV/°C

### INTERNATIONAL STANDARD REFERENCES

- EN 60896-21
- EN 60896-22
- BS 6290-4
- EN 50272-2
- EUROBAT 10-12 years  
 "High Performance"

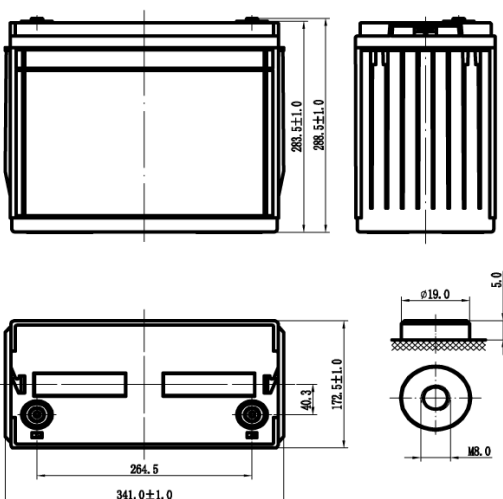
### CERTIFIED

- ISO 9001
- ISO 14001
- UL Component

### CASE BOX

Available in  
 Flame Retardant  
 UL94 V0 version

### Battery and terminal dimensions



### Discharge constant current (Ampere at 77°F 25°C)

TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 h	3 h	5 h	10 h	20 h
<b>1.60 V</b>	415	314	248	197	147	107	86,5	50,3	38,2	14,9	14,80	7,49
<b>1.65 V</b>	382	292	237	101	145	105	84,3	49,1	37,4	25,0	14,60	7,48
<b>1.70 V</b>	373	280	231	187	160	102	82,1	48,1	36,8	24,3	14,30	7,42
<b>1.75 V</b>	352	214	177	154	139	99,8	80,2	40,5	36,1	23,6	14,10	7,40
<b>1.80 V</b>	317	197	166	147	134	96,7	78,0	39,5	35,2	23,0	14,00	7,39

### Discharge constant power (Watts/cell at 77°F 25°C)

TIME	5 min	10 min	15 min	20 min	30 min	45 min	60 min	2 h	3 h	5 h	10 h	20 h
<b>1.60 V</b>	738	566	474	381	287	206	163	94,6	71,8	47,4	26,9	14,76
<b>1.65 V</b>	692	529	433	347	261	200	158	92,2	70,3	47,0	26,3	14,52
<b>1.70 V</b>	690	512	427	343	258	195	154	90,6	69,5	45,9	25,7	14,04
<b>1.75 V</b>	661	483	414	334	254	192	152	89,5	68,6	44,8	25,2	13,80
<b>1.80 V</b>	605	448	391	319	247	189	150	88,7	68,2	44,0	24,5	13,44